

United State Environmental Protection Agency Region 1 One Congress Street, Suite 1100 Boston, MA 02114-2023

Confidential/FOIA Exempt/Not to be Released

Inspection Fields Notes/Inspection Report

Date: September 13, 2012

Subject: City of Bangor MS4 Inspection

Engineering Department

73 Harlow Street Bangor, ME 04401

From: Alex Rosenberg, CWA Compliance Officer

Office of Environmental Stewardship

To: FILE

General Information:

All pictures taken on the inspection can be seen in the K Share @ Inspection Documents/Inspection Reports/Maine/City of Bangor/2012-9-13 City of Bangor MS4.

In-Briefing:

On September 19, 2012 the Region¹ was invited by Wynne Guglielmo (Environmental Manager for the City of Bangor) to attend the Bangor Area Stormwater Group's monthly meeting and then to tour stormwater BMP projects in the City of Bangor. David Ladd, Maine's MS4 coordinator attended both the meeting and tour.

BASWG Meeting:

The group discussed the role and make-up of the public outreach committee and what type of clothing design would be most worn for a general stream clean-up effort. I was introduced to the group. David Ladd was asked when the MS4 stakeholders would be given a chance to review proposed permit language for the 2013 MS4 permit reissuance. No answer was given by Mr. Ladd.

After the meeting, Wynne, Ladd and I sat and looked at some maps that Wynne had printed by the City of Bangor's GIS department. They depicted a large number of

¹ Alex Rosenberg

(approximately 3000) catchbasins and other stormwater infrastructure such as outfalls, and pipes. One map specifically displayed the stormwater BMPs that had been constructed by the City.

It appeared that a large portion of the stormwater infrastructure has been mapped, contrary to the City's insistence at meeting after meeting that they have not inventoried or mapped their complete stormwater infrastructure as of yet, and that this process will be done in 2014.

Alex Rosenberg presented his credentials to Wynne at this sit down opening interview.

Site Visit:

Sylvan Road – A perched culvert has been removed and a new culvert is being installed. Bank stabilization is planned as well as rip-rap of the flood plain surrounding the culverted area. In the same area the city has removed a water main and have installed a natural bottom arch on a road bypass downstream.

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K-mart parking lot – According to Mr. Morgan, K-mart paid for porous pavement with the non-porous pavement section (1/3 of total area) draining to a detention pond which is now ill-maintained because the company isn't doing proper maintenance. Inspector observed the detention pond, and attests to the fact that it is not being maintained.

When the city redevelops Main Square Mall and McDonalds, Mr. Morgan hopes to implement similar sw BMP for the pervious areas.

Marsh – According to the city, there have been emplaced city ordinances to preserve and protect the marsh environment next to the Home Depot parking lot. A 200' buffer was established besides the box store and a 600' buffer from any residential neighbors. According to Mr. Morgan there have been a history of beavers in the Marsh below Stillwater Ave. which have disrupted the ecosystem and residents. By preserving the Marsh above Stillwater Ave. the city hopes to leave the beavers a large enough habitat where they can live and work.

River Bank – The group of inspectors and city officials visited the river bank 'shoreland' park on the Penobscot where according to Mr. Morgan the city has installed stormceptor units underneath the parking lot, treebox filters, dog poop bag stations and a rain garden.

He also mentioned that the city has just awarded the contract to have bio-retention cells also be installed between the downtown parking lot and the river.

Alex Rosenberg noted a flowing 6' diameter concrete outfall across the river in the city of Brewer, ME.

DPW Maintenance Headquarters – According to Mr. Morgan the DPW conducts prewetting when the temperature is below 20 degrees Farenheit during pre-storm conditions. He continued to explain that residential streets have anti-icing applied and that all of the sanding and de-icing activities are dispensed by computerized trucks. Residential and Country roads get sand applications.

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Airport Stream – According to all present on the inspection, stormwater runoff from the DPW parking lot is discharged to this stream that creates a perimeter for the airport and is located approximately 200 meters from the DPW parking lot. According to Mr. Ladd, Gregg Bean of the MEDEP has been sampling this stream and coordinating the stream restoration projects. The stream runs along Union Avenue and under the airport before daylighting at this point next to the DPW. The stream then enters a spillway and weir before it discharges and becomes the headwaters of Birch Stream.

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Bangor International Airport (BIA) tank farm – Facility representative Ricky Howard met us as we entered the site. The contact phone number for the site is 207-992-4643. According to Wynne, who stated that she has ultimate oversight authority for this facility in her position as environmental manager of the city, Robert Beaton manages this site which has a 2 Million gallon capacity to hold both Jet fuel and regular fuel. The compliance officer for the airport is Rodney Madden, who Wynne oversees.

I quickly looked at the plan and noted that it was dated 2/29/12 and was signed by Robert Beaton. The substantial harm criteria checklist 40 CFR 112.20(e) was not signed. According to Wynne, Rodney believes that the airport only needs the signed plan within a half mile of the facility. Wynne disagrees with him and believes that one should be kept on site.

A site walk was conducted to inspect all of the ASTs on site. The large capacity oil tanks were well maintained and were clearly marked as to when the last inspections were and when the next inspections need to be scheduled. Containment areas were impeccably kept.

The vehicle fueling area had a stormwater catchbasin between the berms used as general secondary containment. No spill kits were identifiable when standing at the fueling station. The Jet A fuel sump tank container was uncontained, and was located approximately 10 feet from the catchbasin inside the fueling area. The re-fueling hoses were on the ground within the potentially trafficked area of the entrance driveway (also the fueling area). No locks were on the fuel hoses and therefore there existed a threat to vandalism and release of oil. The facility does have security lights, cameras and a locked gate.



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Inspection Fields Notes/ Inspection Report

Date: February 21, 2012

Subject: City of Bangor Sewer Collection System (SSO/CSO/WWTF) Inspection

Engineering Department

73 Harlow Street Bangor, ME 04401

WWTF

760 Main Street Bangor, ME 04401

From: Alex Rosenberg, CWA Compliance Officer

Office of Environmental Stewardship

To: FILE

General Information:

All pictures taken on the inspection can be seen in the K Share @ Inspection Documents/Inspection Reports/Maine/Bangor. Selected photos with annotation are at the same link in PDF format, called Photo Album.

In-Briefing:

On February 14th, 2012 the Region¹ was invited by the City of Bangor to tour/inspect the WWTF, the Engineering Department, the stormwater collection system and the sanitary sewers/CSOs. Meetings commenced at 1000 hours and lasted until 1600 hours. The inspection was conducted in multiple parts: a entrance meeting, a WWTF plant walk-through, Sewer/Stormwater collection system and CSO location field visits, Engineering Department visit and an exit interview.

Entrance Meeting: 1000am – 1030am

Attendees –

¹ Alex Rosenberg

Bradley Moore, Superintendant WWTF <u>brad.moore@bangormaine.gov</u> 992-4471 Sean Currier, Supervisor Sewer Maintenance, <u>sean.currier@bangormaine.gov</u> 992-4513 Tim Ford, Lead technician Sewers, (b) (6)

Paul Nicklas, Assistant City Solicitor, <u>paul.nicklas@bangormaine.gov</u> 992-4275 Alex Rosenberg, EPA

Art Morgan, Director of Public Services art.morgan@bangormaine.gov
Jeff Allen, Engineering Dept, <u>jeff.allen@bangormaine.gov</u> 992-4183
John Murphy Asst.City Engineer, <u>john.murhpy@bangormaine.gov</u> 992-4247
Wndy Warren Bangor's Environmental Coordinator, wendy.warren@...same... 992-4255

WWTF

In May of 1968 a 43 MGD primary waste treat facility was built at the same location as the current WWTF. In December of 1992 secondary treatment was added for the same (and current) capacity of 43 MGD. The on-site laboratory conducts all metal and semi-volatile parameters and sends samples to off-site contracted facility for Mercury. In the summer they test for Phosphorous between June 1st and Sept.

The city accepts sewage from some portions of the Towns of Hampden and Herman. Inter-municipal agreements state that if 80% of the allotted capacity for either respective town is reached during three consecutive months, a study must be conducted. The city also manages a pre-treatment program for all three municipalities.

According to Brad Moore (BM), the facility produces approximately 6800 tons of biosolids per year with an average saturation of 26%. These solids are trucked to new England organics at Hawke Ridge. NE Organics makes between 0 and 3 trips to the facility daily for pick-up. The city has just renewed their expired 15 contract for 5 years with the right to renew for two more five year contracts. Between 1974 and 1994 they deposited solids at the airport.

There are 3 primary tanks, the third of which is only used for wet weather (when flow exceeds 30MGD). Chlorine is added at the beginning of these baffled tanks and bisulphate is added at the end. Influent can be modulated.

There are four pumps, one of which is constant speed and is used as the first lag pump. Pumps are usually rotated weekly. In 1997 the WWTF was upgraded to fiber-optics. Operators can control flow in operational electrical room or in control room in main office building. The WWTF has two separate electrical feeds to ensure greater redundancy. All switches have tie breakers.

The WWTF is staffed 10 hrs/day. During off hours the SCADA system calls in an operator at high levels with different alarms for different scenarios. If the alarm does not reach the first individual on the call chain, it tries the next, until it calls Brad Moore. A list of system alarms is kept electronically for 30 days. The department (according to

Brad Moore and other operators) relies more on institutional knowledge, than analysis of alarm records, to prioritize work.

Employees rotate on a 4 week schedule for the following tasks: dewatering (2 staff), Pump stations (2 staff), daily monitoring (1 staff), rover (1 staff). These 6 operators are able to do all the jobs. When a position requires 2 staff, their respective shifts are offset by 2 weeks to ensure consistency in understanding temporary problems/trouble-shooting.

The influent butterfly valve used to be hydraulically controlled. Now it is electric and is backed up with a back-up generator. The automatic PLC is on a battery back-up in order to command the start of the generator in case of a power outage. The generator is supposedly checked weekly by allowing it to run for 45 minutes. A daily visual checklist is also conducted. The generator-PLC automated connection is not tested in any formal manner.

The primary sludge is pumped on timers. It is co-thickened with hypochlorite and as waste activated sludge in two gravity thickeners. Sludge lines are cleaned by a series of in-line pigs that can be shot both ways. Two, 2 meter presses, dewater the sludge, and produce approximately 25 cubic yards/day.

Samples of final effluent are taken from two locations. The primary sampler is where a continuous discharge is sent to the Penobscot. The second sampler is used only during wet weather, and it reads the primary treated effluent only. The two samplers are then mass balanced as a means to back calculate final effluent concentrations.

A pump station pumps primary treated wastewater to a 110' trickling filter. Filter media is 16' thick and is currently 10 years old. The media has a life expectancy of 5-12 years and a surface area of 106 acres.

Two aeration tanks are outfitted with new LDO oxygen probes (light source). They are also equipped with micro bubblers at their base and are needed during the summer only. During the winter the WWTF accepts a limited 2,500 pounds of BOD from airport deicing fluid (or 25,000 gallons per day).

According to Brad Moore, approximately 2 tons/day of bugs are 'wasted' from clarifiers.

SPCC

The facility does have a SPCC plan. The plan was not reviewed as part of this visit. A 1000 gallon furnace tank and two 275 gallon diesel tanks were observed in the WWTF electrical building. The garage contained approximately fifteen 55-gallon drums, all but one were properly contained. There was also two 275 gallon heating oil tanks in the garage.

Four empty drums were observed behind the parshall flume, and it was recommended that they be properly 'closed' or removed.

Pump Stations and Collection System

All Pump stations have back-up power (generators) except Odlin.

Two in-line storage systems have been installed in the sewer collection system. These storage units are both in-line.

When wet-well maintenance is required at the WWTF, the in-line storage devices can allow for approximately 4.5 hrs of flow stoppage to conduct the work without a bypass.

As described in the 2011 CMOM annual report and was discussed on this site visit, access to the collection system is a continuing issue for proper maintenance and emergency response. Easements are sometime contested and property owners dislike cutting for access. The department has purchased a new 4x4 and will begin to use it for access to long back-country interceptor run checks. One particularly difficult access problem is the Penobscot East Interceptor that runs on a thin strip of land between the Penobscot river and the railway. The railway company demands that notice is given before accessing the area, and highly restricts the times and duration that access is allowed due to train crossing.

IDDE: according to City staff visual inspections at all CSO outfalls are conducted annually during dry weather.

On the tour EPA inspector was able to observe sewer maintenance crew using VAC truck on a section of pipe in Davis Brook. The inspection field sheet (see Photo Album PDF file) included fields for time, footage and TV log. According to the maintenance workers the protocol is to check surrounding stormwater drains near a sewer project. No other protocol for stormwater preventative maintenance could be determined through questioning of city personnel.

CSO/CSO Structures

The waterfront storage or Davis Brook CSO Storage Facility was constructed in 1998. It has required no maintenance since opening and provides 1.2 MG of storage. The original 42 inch interceptor was retained in parallel to the in-line storage unit to provide overflow capacity and the ability to re-route flows for maintenance and cleaning. Approximately 80% of Bangor's sewage flows through this storage unit daily. An additional benefit to the project was the remediation work that was completed in conjunction with the construction of historic coal tar pollution at the water front.

The Barkersville CSO outfall, located below the second in-line storage structure, Kenduskeag East. Kenduskeag East has a capacity of 1.4 Million Gallon (MG) and has box like dimensions of 10' by 12' by 1640'. It helps to prevent over capacity issues in the Penobscot interceptor. The structure has a modulator and a V-bottom. Since its

fabrication and installation in 2003 no maintenance. Staff occasionally walk the structure to spot check the integrity.

One issue of concern according to Brad Moore is the runoff from the route 395 - 95 junctions that enters the sewer system downstream of this CSO control storage structure. Again according to City staff, the federal highway dept is not interested in allocating funds to stormwater pollution prevention and management.

The Cemetery CSO reached a zero flow rate a few years ago and was planned to be permanently stricken from the list of permitted discharge points. Before permit reissuance or modification the city bricked the CSO outfall. In 2011 however, an SSO event upstream of this point in the system caused the city to decide, as a preventative measure, to keep the CSO permitted and to open it back up (See CMOM 2011 annual report).

Carr brook CSO has been re-licensed as a CSO because of the determination that stormwater discharges in the area had significant contributions by sewer cross-connections.

The Hammond St. CSO overflow is downtown. It is a stone culvert below a bridge and is so old that for a portion of its structure there is only a gravel bottom. ADS helped to install flow monitoring device at this and other CSO locations. The signage for this CSO outfall is under the bridge at the end-of-pipe.

SW

The stormwater outfall from the WWTF is submerged at high tide. It was not clearly noted how samples are taken for quarterly inspections during these periods.

Two Stormtech stormwater BMPs were installed in the Pejajawok impaired stream watershed, one at Hogan Ave and the other in the parking lot of the four car dealers across the street from the Eastern Bangor College. The car dealership project cost \$200K, \$90K from the DEP and \$110K from the car dealerships. The DEP secured \$3M in ERA grant money for BMPs.

In the Pejajawok watershed a box culvert was placed under the interstate highway. 2 detention ponds were also installed to collect 1/3 of the runoff from the Bangor Mall parking lot. The stream that runs 1400' from Pender Mall blvd to the interstate, past the K-mart pump station and the stormwater detention ponds, had it's channel re-engineered to adequately contain flood waters.

A 319 grant was also secured by the City to complete 3 BMPs around the Citgo station at the intersection of Hogan Ave and interstate 95.

GIS Mapping

Prior to digital mapping, the City's CAD maps had been used since the turn of the last millennia (1900). In 1998 a new set of maps with topography was generated. For the past three years the Eng. Dept has employeed a GIS specialist who has been working to input the cities assets into digital format. When CH2MHill was acquired to create the first generation of the City's sewer/CSO/SW models using SWMMM, the consultants provided the city with GIS attributes as an aide to asset management. The City is still currently culling the wide range of attributes in order to better fit their needs.

In terms of stormwater mapping, the City is still using the old numbering system. Assets and their identification have not yet been merged into electronic format. For example, field sheets are being filled out by maintenance staff that reference catch basin ID's that do not correlate with any digital information. The process of bringing this type of information into GIS from CAD is underway and is expected to take at a minimum another year.

The GIS effort is currently focusing on two other areas, sanitary sewers and land parcel's. In terms of sanitary sewers, the hope is that the entire system will be mapped in GIS by the end of summer 2012 (August). This date does not include service connection, only the in street pipes and outfalls. The proposal has been raised to buy a GPS unit for the maintenance truck in order for the crews to eventually populate the database in one step.

The term 'scope creep' was used when City staff explained how the GIS FTE is spending half-time digitizing municipal property boundaries which is not only helpful for stormwater utility analysis but also for many other City departments. There are weekly meetings for the stormwater utility.

Engineering Dept.

Until last year (2011), utility companies paid an annual dig safe fee of \$500 to the City's Engineering Dept. The fee included all of the City staff visits – painting, checking, rechecking if project stalled. Now utilities, as well as private citizens and companies, must pay a \$50 permit fee for each request and trip of City staff to a site. To give an example of how much time is spent by City staff doing this type of work, Bangor Gas alone does approximately 700 dig safe requests per year.

CH2MHill was hired by the City for a 3-yr, \$500,000 per year, contract to assist with all aspects of CWA compliance – CMOM assessment, SWMM modeling, asset management, CSO LTCP, stormwater management and integrated management. A majority of their time and resources are being spent on hydraulic modeling, asset management and integrated management.

Exit Interview

CH2MHill has been updating the City on EPA comments given at the multiple regional public meetings held concerning the Integrated Approach strategy for municipal CWA compliance. The City would like EPA to grant them an extension on their CSO LTCP

report preparation (currently due Sept 31, 2012) in order for them to prepare an integrated management approach plan.

According to the City, who heard this from CH2MHill, the EPA representative who was presenting in Atlanta and New York was not 'bit into Green Infrastructure problems'. Bangor wishes to be an example of small city approach to integrated management.

EPA exited the site at 4:00 pm.



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EPA Region 1 Clean Water Act Inspection Data Entry Form: 3560EZ

Inspector:			Erin Trainor		Date form completed:		7/11/2013				
							•				
Section A:	Facility In	ıformat	ion								
Inspection	start date:		7/8/2013		Inspection end date (if more than one day):		7/9/2013				
NPDES ID):		ME0100781		Federal faci	lity?	No				
Name and	Location of	Facility	y Inspected:								
	Name:		City of Bangor, ME MS4/0	CSO							
	Address:		Various tributaries and one	e CS	O outfall						
	City:		Bangor		State:	ME	ZIP:	04401			
Facility Or	-Site Repre	esentativ	ve #1:								
	Name:		Sean Currier (on-site 7/9/2013 only)								
	Title:		Sewer Collection System Manager, City of Bangor								
	Phone #:		207-992-4470	Fa	x # / email:	207-947-3537	1				
Facility Or	n-Site Repre	esentativ	ve #2 (if necessary):	#2 (if necessary):							
	Name:		James (Jim) Grant (7/9/201	13 or	nly)						
	Title:		Sewer Maintenance								
	Phone #:		207-992-4470	Fa	x # / email:	207-947-3537	1				
Section B: Compliance Monitoring Information											
Complianc	e Monitorir	ng Activ	vity Name:	CSI							
Clean Wat	er Act Secti	on (cho	oose from only one of the fol	llowi	ing):						
	CWA §308	8[A][B]	: NPDES Stormwater - MS4								
	CWA §31	1: Oil ar	nd Hazardous Substances	Ch	oose an item						
	CWA §404 Material	4: Perm	its for Dredge and Fill Choose an item								
Compliance Monitoring Type			:	spection w/ S	ampling						
Compliance Monitoring Reason			on: Agency Priority								
	If Agency	Priority	, then specify priority(s):								
		OECA - CAFO									
		OECA	- CAFO Region Initiative	Areas	S						
		OECA	- CSOs w/ < 50,000 service	e pop	oulation			\boxtimes			
	OECA - CSOs w/ >= 50,000 service										
	OECA - MS4s Phase I										
		OECA	- MS4s Phase II								
		Region	n 1 - Environmental Justice								
		Region	n 1 - Green Economy / Gree	n Inf	rastructure						
		Region	n 1 - Industrial Laundries								
		Region	n 1 - Lead Poisoning								
		Region	n 1 - Municipal Infrastructur								

Region 1 - Pollution Prevention & Resource								
Region 1 - Ship / Boat Yards								
Region 1 - Wet Weather								
Compliance Monitoring Agency Type:								
Was this a Joint Compliance Monitoring Activity?								
Which party had the lead?	Choose an iten	n or leave blank if N/A						
If State lead, what was the purpose of EPA participation?	n or leave blank if N/A							
Section C: ICDS Information		1						
Did you observe deficiencies (potential violations) during the inspec	ction?	Yes						
Potential excess emission in violation of regulations:	Ц							
Potential failure to complete or submit a notification, report, certification								
follow a permit condition(s):								
follow a required sample monitoring procedure or lab								
follow or develop a required management practice or								
identify and manage a regulated waste or pollutant in								
maintain a record or failure to disclose a document:								
maintain/inspect/repair meters, sensors, and recording								
obtain a permit, product approval, or certification:								
report regulated events such as spills, accidents, etc.:								
Potential incorrect use of a material (pesticide, waste, prunapproved material:								
Potential violation of a compliance schedule in an enforce								
If you observed deficiencies, did you communicate the deficiencies the inspection?	No							
If yes, did you observe the Facility take any actions duri address the deficiencies noted?	Choose an item							
If yes, what actions were taken? Choose an item								
If the Facility reduced pollution, what pollutar	Enter text							
Did you provide general compliance assistance in accordance with to fithe EPA inspector in providing compliance assistance during inspector.	No							
Did you provide site-specific compliance assistance in accordance verole of the EPA inspector in providing compliance assistance during	No							
		•						
Comments:								



United State Environmental Protection Agency

Region 1

One Congress Street, Suite 1100 Boston, MA 02114-2023

Confidential/FOIA Exempt/Not to be Released

Inspection Fields Notes/ Inspection Report

DATE: June 19 2013

SUBJECT: Inspection Report

MS4 and CSO Compliance Sampling Inspection Reconnaissance

City of Bangor

FROM: Inspector - Alex Rosenberg

TO: FILE

Drafted Date: 6 28 13 Finalized Date: 7/2/13 Reviewed By: Erin Trainor Reviewed Date7/1/2013

Purpose:

To identify sample locations in order to plan the logistics of a future Compliance Sampling Inspection for both the MS4 and CSO outfalls within the City of Bangor.

General:

Other than a brief conversation with a sewer department field worker at one of the CSO outfalls the City was not communicated with prior to or during this reconnaissance.

A GPS camera was used in order to facilitate finding the sites again.

Prior to entering the field, stormwater infrastructure and sewer infrastructure maps were reviewed by the inspector.

Field Code Changed

Field Notes:

A photo log has been drafted and is saved in the file along with original photos.

After touring the Penjajawoc, Capehart and Birch stream watersheds I then tried to locate CSO outfall #016 which is located on the banks of Kenduskeag Stream. I asked some cemetery workers if they knew of any access location to reach the outfall. They explained how to get there by way of a dirt access road near the intersection of 14th Street and Valley Rd. 14th Street runs parallel and just south of Interstate 95 off of Ohio St.

When traveling down the dirt access road to the CSO location I encountered a city contracted sewer cleaning operation. The staff explained that they were cleaning a double barrel sewer line that runs beneath the Kenduskeag River. They explained that this is routine maintenance and that no out of the ordinary issues have been encountered.

The staff warned me of a high number of suspicious characters wandering the woods, and to be safe walking the extra distance along the access road to reach CSO outfall 016. All that was observable at outfall 016 was a manhole cover located directly adjacent to the south side of the access 'road', that at this point was reduced to a two foot wide foot-path. The Kenduskeag River flows approximately 15 feet to the north of the foot-path. Between the path and the river a highly vegetated area, dense with poison ivy, shielded the view of what looked like an outfall structure.

Upon exiting the access road in my car, I ran into a sewer maintenance truck of the City of Bangor. The worker, Tim Ford, told me that I was not permitted to be on the access road. I identified myself as an EPA inspector and showed him my credentials. He said that it didn't matter. I told him, okay, and was already leaving the premises. At the gate, I stopped him to ask if he could tell me which, if any, of the City's CSO outfalls could be observed from land and were accessible. He ran down the list of all the CSO's using a map that I had. He stated that most of the outfalls are accessed via manholes.

Central and Hammond St CSO's he said were located under bridges.

Meadowbrook CSO he said is located behind the federal building, just beyond the guard shack and could be accessed.

Barkersville he said he monitors through a manhole.

Kenduskeag East is not accessible except through a manhole and Kenduskeag West is located on Washington St. and could possibly be observable at extremely low tide.

Tim also mentioned that he thought Kenduskeag East and West were closed because he doesn't check them anymore, but he said this could be because they now have electronic monitoring or something.

Conclusions:





EPA Region 1 Clean Water Act Inspection Data Entry Form: 3560EZ

Inspector:			Alex Rosenberg		Date form completed: 6/19/2015						
Section A:	Facility In	format	ion								
Inspection	start date:		6/19/2013		Inspection end date (if more than one day):		6/19/2013				
NPDES ID):		ME0100781		Federal faci	lity?	No				
Name and	Location of	Facility	y Inspected:								
	Name:		City of Bangor								
	Address:		760 Main St								
	City:		Bangor		State:	ME	ZIP:	04401			
Facility On-Site Representative #1:											
	Name:		Bradley Moore								
	Title:		WWTP Superintendant								
	Phone #:		207 992 4471	Fax # / email: Brad n		Brad moore@	bangor	maine.gov			
Facility Or	Facility On-Site Representative #2 (if necessary):										
	Name: Enter text										
	Title:		Enter text								
Phone #: Enter text				Fax	x # / email:	Enter text					
Section B:	Complian	ce Mon	itoring Information								
Clean Water Act Section (choose from only one of the following):											
CWA §308[A][B]			: NPDES	er Overflows							
	CWA §311	1: Oil ar	nd Hazardous Substances Choose an item								
	CWA §404 Material	4: Permi	its for Dredge and Fill Choose an item								
Compliance Monitoring Type:			:	Inspection							
Compliance Monitoring Reaso			on:								
	If Agency	Priority	, then specify priority(s):								
		OECA	- CAFO								
	OECA - CAFO Region Initiative										
	OECA - CSOs w/ < 50,000 service										
OECA - CSOs w/ >= 50,000 service					opulation						
OECA - MS4s Phase I											
OECA - MS4s Phase II											
	Region 1 - Environmental Justice										
		Region	n 1 - Green Economy / Green	n Inf	rastructure						
		Region	n 1 - Industrial Laundries								
		Region	n 1 - Lead Poisoning								
		Region	n 1 - Municipal Infrastructur	e							
		Region	n 1 - Pollution Prevention &	Res	ource Conser	vation					

Region 1 - Ship / Boat Yards				
Region 1 - Wet Weather				
Compliance Monitoring Agency Type:				
Was this a Joint Compliance Monitoring Activity?				
Which party had the lead?	n or leave blank if N/A			
If State lead, what was the purpose of EPA participation?	Choose an item	n or leave blank if N/A		
Section C: ICDS Information				
Did you observe deficiencies (potential violations) during the inspection?		No		
Potential excess emission in violation of regulations:				
Potential failure to complete or submit a notification, report, certification, or r				
follow a permit condition(s):				
follow a required sample monitoring procedure or laborate				
follow or develop a required management practice or proce				
identify and manage a regulated waste or pollutant in any				
maintain a record or failure to disclose a document:				
maintain/inspect/repair meters, sensors, and recording equi				
obtain a permit, product approval, or certification:				
report regulated events such as spills, accidents, etc.:				
Potential incorrect use of a material (pesticide, waste, product unapproved material:				
Potential violation of a compliance schedule in an enforceable	e order:			
If you observed deficiencies, did you communicate the deficiencies to the the inspection?	No			
If yes, did you observe the Facility take any actions during the address the deficiencies noted?	e inspection to	No		
If yes, what actions were taken? Choose an item				
If the Facility reduced pollution, what pollutant was	Enter text			
Did you provide general compliance assistance in accordance with the poof the EPA inspector in providing compliance assistance during inspectio	No			
Did you provide site-specific compliance assistance in accordance with the role of the EPA inspector in providing compliance assistance during inspector.	No			
Comments: Was a RECON for sampling event later in the month. Did not contact city weeks after coordinating with the lab.	y about recon. Pla	an is now to sample in two		



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION I

DATE:

August 7, 2013

SUBJ:

MS4 Compliance Sampling Inspection

City of Bangor, Maine

FROM:

Erin Trainor, Inspector

TO:

File

REVIEWED BY:

Alex Rosenberg 8/7/13

REQUESTED BY:

Alex Rosenberg, OES

I. <u>Background Information</u>

A. Date, Time of inspection: Monday, July 8, 2013, 12:30PM to 15:30PM

Tuesday, July 9, 2013, 8:00 AM to 15:15PM

in 4. Com 0/1/2013

B. Weather Conditions:

Sunny, approximately 70 degrees F

C. USEPA Representatives: Erin Trainor

Erin Trainor

Alex Rosenberg

D. Site Representative(s):

Bradley Moore

WWTP Superintendant

City of Bangor

760 Main, Bangor, Maine 04401

E. Address:

Various locations along Penjajawoc Stream, Birch Stream,

Capehart Brook, Kenduskeag Stream, Birch Stream, and the

Penobscot River.

II. Purpose of Inspection

The purpose of the inspection was to identify illicit connections or illegal discharges within the City of Bangor's municipal separate stormwater sewer system (MS4) and combined sewer system that may adversely impact the water quality. Samples were collected from eight (8) locations either in streams or at stormwater outfalls in accordance with the Environmental Investigations and Analysis (EIA) unit Stormwater Program Plan.

III. <u>Description of Sampling Locations</u>

- In stream sample located in the Penjajawoc Stream to the west of Bangor Federal Credit Union, identified as PJ-2-3.
- In stream sample located in the Penjajawoc Stream to the south of Wendy's Restaurant, identified as PJ-04.
- In stream sample collected from Capehart Brook at the northeast end of Pushaw Road, identified as CB-01.
- In stream sample located along Birch Stream to the west of Godfrey Boulevard, downstream of the City of Bangor's Department of Public Works' (DPW) yard, identified as BR-04.
- In stream sample located along Birch Stream to the east of Bangor International Airport (BIA) Commercial Industrial Park, prior to the confluence with BR-04, identified as BRBBHYD.
- In stream sample located along Birch Stream to the north of Ohio Street, prior to entering the Kenduskeag Stream, identified as BR-01.
- Combined sewer overflow located along Kenduskeag Stream, identified as CSO11.
- In stream sample collected north of Mount Pleasant Cemetery, identified as K-trib.

A map of the sample locations in attached along with photographs.

IV. <u>Inspection Observations and Findings</u>

On Monday and Tuesday July 8 and 9, 2013, EPA inspectors Alex Rosenberg and Erin Trainor conducted an Compliance Sampling Inspection (CSI) within the City of Bangor, Maine at eight (8) locations along Penjajawoc Stream, Birch Stream, Capehart Brook, Kenduskeag Stream, Birch Stream, and the Penobscot River.

The inspection started in Bangor at approximately 12:30 PM on Monday, July 8, 2013 and continued into July 9, 2013. At the time of the inspection, the weather was sunny and approximately 70 degrees Fahrenheit. According to weather underground, 0.3 inches of rain was reported on July 8, 2013.

EPA inspectors announced the inspection at approximately 2:00PM on July 8, 2013, and requested the City have staff available on July 9, 2013 to open manholes for inspection.

The sampling locations described in Section III were field screened using test kits for ammonia, chlorine, and surfactants and analyzed for E.Coli and Enterococcus at Maine Center for Disease Control and Prevention located in Augusta, Maine and pharmaceutical and personal care products (PPCPs) including: Atenolol, Acetaminophen, Cotinine, 1,7-Dimethylxanthine, Caffeine, Carbamazepine, and Metoprolol at the EPA New England Regional Laboratory (NERL) located in North Chelmsford, Massachusetts. In-situ measurements for conductivity, salinity, and temperature were also recorded. The following table summarizes the findings.

End of Report

Attachments: Table 1: Summary of Bangor, ME MS4 Inspection - July 8, 2013

Table 2: Summary of Bangor, ME MS4 Inspection - July 9, 2013

Photographs and Sample location map

Table 1: Summary of Bangor, ME MS4 Inspection - July 8, 2013

Sample ID	PJ-2-3	PJ-04	CB-01	BR-04	BRBBHYD	BR-01
Time	12:50	13:10	14:00	14:55	15:00	15:40
Latitude/Longitude	44.82638581 N / 68 73963875 W	44.83425329 N / 68.74572209 W	44.848403 N / 68.811331 W*	44.8170711 N / 62.8115315 W	44.81711897 N / 68.81171083 W	44.82391593 N /
	In otream cample	In ctream cample	In ottoms manufo	Tu change annual	Tr oftenna comments	1 2 24 24 24 24 W
	located from the	focated from the	collected from	lin sureann samplie Iocated along Birch	in stream sample located along Birch	In stream sample located alono Birch
	Penjajawoc Stream	Penjajawoc Stream	Capehart Brook at the	Stream to the west	Stream to the east of	Stream to the north
Description of	to the west of	to the south of	northeast end of	of Godfrey	Bia Commercial	of Ohio Street, prior
Location	Bangor Federal	Wendy's	Pushaw Road.	Boulevard,	Industrial Park,	to entering the
	Credit Union.	Restaurant.		downstream of	prior to the	Kenduskeag Stream.
				DPW yard.	confluence with	
	Stream approx. 7'	Stream approx. 4'	Outfall approx. 10' in	Low to moderate	Tributary to BR04	Cloudy
Physical	width and 6"	width and 6" depth.	diameter, Flow > 100	flow. Turbid.	Some suds present.	
Observations	depth. Moderate	Moderate flow.	gallons per minute.		•	
	flow.	Suds observed.	,			
Temperature, °C	22.3	23.2	18.4	20.0	20.3	21.0
Specific Conductivity, µS	473	388	382	315.3	468.4	376
Salinity, ppt	0.2	0.2	0,2	0.2	0.2	0.2
Ammonia, mg/L	NA	0	0	0.25	0	0
Chlorine, mg/L	NA	0.07	80.0	0.04	60.0	0.21
Surfactants, mg/L	NA	0.20	01'0	0.2	01.0	0.25
Atenolol, ng/l	ND	QN.	QN	Ð	Q.	2
Acetaminophen, ng/l	12	QN	QN	22	3.0	18
Cotinine, ng/l	15	5.7	6.7	7.8	2,5	9.2
1,7-						
Dimethylxanthine, ng/l	18	8.4	3.1	26	8.1	28
Caffeine, ng/l	210	99	35	330	26	290
Carbamazepine, ng/l	Q.	QN.	1.1	0.31^{L}	Ð	QX
Metoprolol, ng/l	QV	ND	QN	0.73^{L}	0.73 ^L	2
E.Coli, MPN/100ml	1,300	488	2,620	1,300	687	1,553
Liconi, ivi 14/100illi	1,500	100		4,020		DOC,1

NA: Not analyzed

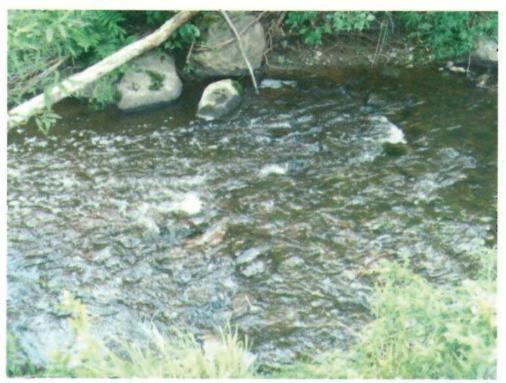
ND: Not detected above reporting limit
*GPS coordinate collected from AcrGIS Explorer
L: Estimated value below the calibration range

Table 2: Summary of Bangor, ME MS4 Inspection - July 9, 2013

K-trib	13:05	44.815080 N / 68.790170 W*	In stream sample collected north of Mount Pleasant Cemetery.	Flow approx. 30 gallons per minute. Tributary to Kenduskeag.	15.7	791	0.4	0.25	0.03	0.25	QN	ND	2.8	3.6	6.6 ^B	0.31 ^L	QN	95
CSO11	12:00	44.803753 N / 68.774823 W*	Combined sewer overflow located along Kenduskeag Stream.	Outfall partially submerged. Running water heard upstream in pipe. Suds present.	23.7	<i>1,74,1</i>	0.1	0	90.0	0.2	QN	9'9	1.0	5'9	51	0.25^{L}	QN.	289
Sample ID	Time	Latitude/Longitude	Description of Location	Physical Observations	Temperature, °C	Specific Conductivity, µS	Salinity, ppt	Ammonia, mg/L	Chlorine, mg/L	Surfactants, mg/L	Atenolol, ng/l	Acetaminophen, ng/l	Cotinine, ng/l	1,7-Dimethylxanthine, ng/l	Caffeine, ng/l	Carbamazepine, ng/l	Metoprolol, ng/l	E.Coli, MPN/100ml

NA: Not analyzed

ND: Not detected above reporting limit
*GPS collected from AcrGIS Explorer
L: Estimated value below the calibration range
B: Analyte associated with the lab blank contamination. Value is qualified when the observed concentration of the contamination in the sample extract is less than 3 times the concentration in the blank.



PJ-2-3: In stream sample located from the Penjajawoc Stream to the west of Bangor Federal Credit Union.



PJ-04: In stream sample located from the Penjajawoc Stream to the south of Wendy's Restaurant.



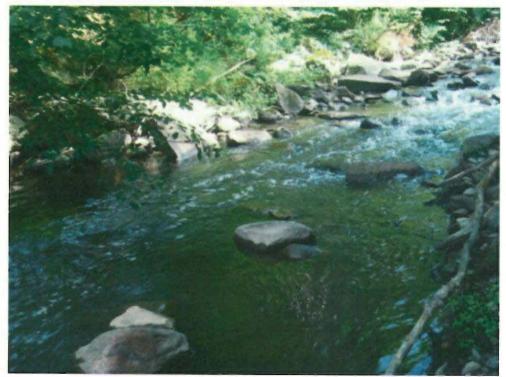
CB-01: In stream sample collected from Capehart Brook at the northeast end of Pushaw Road.



BR-04: In stream sample located along Birch Stream to the west of Godfrey Boulevard, downstream of DPW yard.



BRBBHYD: In stream sample located along Birch Stream to the east of Bia Commercial Industrial Park, prior to the confluence with BR-04.



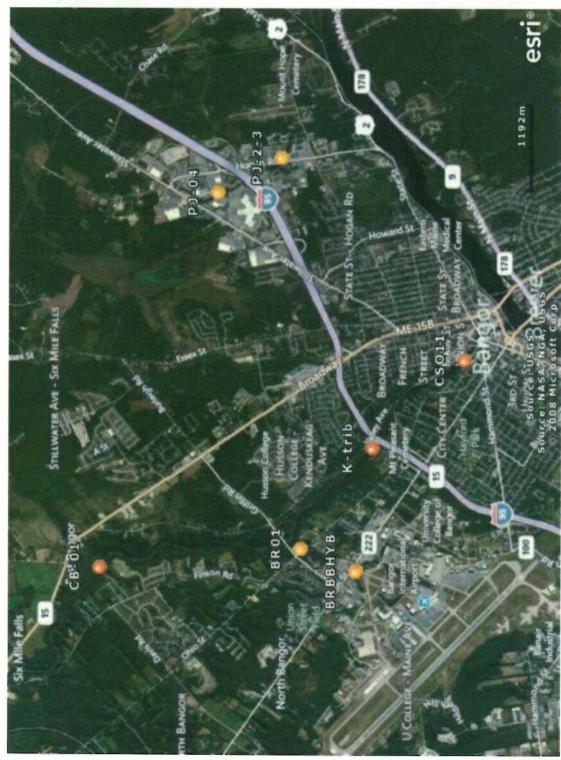
BR-01: In stream sample located along Birch Stream to the north of Ohio Street, prior to entering the Kenduskeag Stream.



CSO11: Combined sewer overflow located along Kenduskeag Stream.



K-trib: In stream sample collected north of Mount Pleasant Cemetery.



View of sampling locations collected July 8, 2013 and July 9, 2013. Note: Red symbols indicate approximate locations, orange symbols indicate GPS coordinates collected in field.



Close up view of sampling locations BRBBHYB and BR-04 collected July 8, 2013.

				-
•				

Bangor Review Comments

The following documents were reviewed:

- PY3 MS4 Annual Report Nov 22, 2011
- CMOM 2011 Annual Report Jan 31, 2012
- Asset Management Report Appendix B of CMOM 2011 Report (Jan 2012)

Engineering, O^M & WWTF

⇒ No standard operating procedures for how to respond to a SCADA alarm exist. Also, the alarm history is kept for only 30 days in electronic format. Facility flow trends as opposed to alarm history is used to a greater extent for planning maintenance. While on the site visit Feb. 14, 2012 a SCADA system alarm – communication failure - was tripped for the K-mart pump station (PS) at 10:30.05AM. The controller at that time explained that because there has been frequent malfunctioning of the communication signal with the K-mart PS, staff usually will wait an hour before responding to see if it fixes itself. Approximately 55 minutes after the alarm sounded the communication came back online without adjustment.

This situation highlights two important points. First, the institutional knowledge at the city's WWTF and within it's Engineering Department is very good. Brad Moore, the wastewater superintendent does an excellent job at managing this knowledge. One example of this management is that during shift rotations one staff member remains dedicated to each respective task.

The second point is that written protocols seem to be lacking, one example being alarm response. The SCADA system includes redundancies to ensure that someone is contacted at anytime. However, without written protocols, there exists the possibility of confusion regarding how to react. Most importantly, protocols should be created for unmanned, off-hour response, when alarm response is completely reliant on the SCADA system.

- ⇒ The back-up generator that would run the WWTF influent butterfly valve in the case of loss of electricity is controlled by the automated 'PLC' system. The PLC has a battery back-up that theoretically enables the system to continue to function in the case of an electrical outage thereby signaling the back-up generator to begin. The back-up generator however is tested *manually* each week. The connection between the PLC system and the generator should be tested on some regular basis if possible.
- ⇒ Access to sewer assets is a continuing issue. The most contentious access point is the Penobscot interceptor that runs between the river and the railroad tracks. The railway company requires notification before access is granted and there are duration and frequency restrictions based on train schedules. What does the city propose to do to ensure safe and timely response for both maintenance and emergency relief at this location?

- ⇒ In 2011 permit fee structures for the Dig Safe program were changed from having utility companies pay a one-time annual fee of \$500, to now requiring a permit fee of \$50 each time that DEP staff go on-site (painting, checking, rechecking, etc.). According to City Staff, Bangor Gas alone completes approximately 700 dig safe projects per year. Not considering the question of whether the current fee structure is adequate to compensate for the City staff's time, a question that may want to be considered is whether the engineering department would be better suited to have a dedicated employee/vehicle for the program? It is certain that digitization of all assets in GIS will decrease the time spent on-site during dig safe work requests.
- ⇒ A top-down heavy approach seems to be the best solution for Bangor in terms of asset management; using existing institutional knowledge to manage from a high level and letting plans become more detailed as more exact, statistical, and geographically aligned information is gathered. EPA agrees with CH2MHill approach as such.
- ⇒ The asset management plan assumes 'a risk score of 10 was applied to all collection system assets that do not have a written operation and maintenance plan (but notes, the City's CMOM program document, which is in development, will address the need for written operation and maintenance plans for the collection system). This is an important reminder to continuously reassess and modify the risk scoring assumption as the City further develops their CMOM program. (see asset management report page 3-1)
- ⇒ CH2MHill states that 'the City of Bangor currently does use a CMMS; however, the tool is not fully utilized by the collection system maintenance staff.' They go on to state that 'full implementation of a CMMS tool for the entire sewerage system is recommended to assist with maintenance and planning activities, including generating work orders, creating equipment history reports, and tracking "top ten" maintenance items.' EPA fully agrees.

Stormwater

Text and tables from the Nov. 2011 PY3 MS4 Annual Report shown in BLUE:

Minimum Control Measure 3 – Illicit Discharge Detection and Elimination: Subpart 3.2 Watershed Based Storm Sewer System Infrastructure Map. <u>BMP 1</u> – Develop a watershed based storm sewer system infrastructure map.

MCM 3.2,	Completed	Map 20% additional Storm	Birch, Penjajawoc, Shaw
BMP1, MG2		Sewer infrastructure	watersheds complete.
			New GIS employee to be
			hired PY4.
MCM 3.2,	Exceeded -	By PY 5 map all storm	*Completed property
BMP1, MG3	70%	sewer infrast. incl. direction	boundaries & IC City
	Completed	of in/out flows, catch	wide in PY2

⇒ On the Feb 14th, 2012 visit the GIS staff was still working on digitizing land parcels from the municipal property tax maps for IC determination. This does not correspond with the statement from the PY3 MS4 report that says – Completed property boundaries & IC city-wide in PY2.

Regarding stormwater assets, the GIS staff at the city did describe what is presented in the PY3 report; all SW assets plan to be mapped by Spring of 2013 (PY5). Also, an additional GIS employee was hired in PY4.

The January 2012 Asset Management Report produced by CH2MHill succinctly declares that the key concepts to asset management are the knowledge of: assets and their characteristics, physical condition of assets and performance of assets. These areas of knowledge are currently being understood by the city through GIS mapping, attribute creation, and flow monitoring. The report identifies the need to expand asset management program to stormwater infrastructure. It is good to see the City is doing this.

<u>BMP 2</u> - The BASWG will support the development of a regional watershed-based storm sewer infrastructure map with the goal of combining it with the database management tool that will be implemented by the group during the current permit cycle.'

- ⇒ What are the benefits, other than cost savings in database creation and upkeep, with sharing stormwater infrastructure data between municipalities?
- ⇒ David Ladd, MEDEP, asked for the following in his PY2 MS4 Annual Report Review Letter dated Sept 8, 2011:

'BMP Dry Weather Inspection Program: The City has a well thought out prioritized dry weather inspection program. I need a link to the on line data, but it appears that the City has expanded this program. Could I get a breakdown by watershed in future reports listing inspections and number of problems (illicit or potential illicit discharges) encountered. In your next annual report for dry weather inspections, provide the number of inspections conducted in each watershed surveyed. I also want to know the total number of "known" outfalls in each watershed. I need # of problems encountered what they were; what follow-up actions were conducted & when follow-up was completed.'

This information was not present in the Nov 22, 2011 - PY3 submittal. Can this information be provided to the EPA for either FY 2011 and/or PY3.

- ⇒ In the PY2 report review David Ladd also asks that:
 - '...for Permit Year 3 & 5 annual reports, a more detailed synopsis of the plans impact/assessment [part of MCM 1] will need to follow the table.' (see Table A. of Section 5.3.1 in PY3 report)

This information was not present in the Nov 22, 2011 - PY3 submittal. Can this information be provided to the EPA for either FY 2011 and/or PY3.

201	0 - 2011 C	atch Basin C	Cleaning Report	
Catch ba	asins		236 of estimated 3000 basins	
inspecte	d/cleaned			
Catch	basin	debris	139 Cubic Yards	
removed	l			

^{*} Equipment and labor resources were not made available to clean ½ of all basins therefore, Bangor focuses on the toe of steep sloped hills where the fastest filling catch basins are located.

⇒ How are the catch basins at the toe of steep slopes identified? How are the work orders generated from these or other lists of identified locations without a fully implemented CMMS?

MCM 6.6,	Exceeded	By PY5 evaluate and	116 staff hrs worked with
BMP 1, MG		implement a maint.	CH2MHill & DEP to
		schedule for conveyances,	integrate catch basins into
		structures, outfalls	CSO asset management
			strategy

- ⇒ How were catchbasins integrated into the CSO asset management strategy?
- ⇒ Could a copy of the Stormwater Utility Feasibility Study that was to be completed in PY4 (July 2011) please be forwarded to EPA.



EPA Region 1 Clean Water Act Inspection Data Entry Form: 3560EZ

Inspector:			Alex Rosenberg		Date form c	ompleted:	0/19/2	015
Section A:	Facility In	format	ion					
Inspection	start date:		6/19/2013		Inspection e		6/19/2	013
NPDES ID):		ME0100781		Federal faci	lity?	No	
Name and	Location of	Facility	y Inspected:					
	Name:		City of Bangor					
	Address:		760 Main St					
	City:		Bangor		State:	ME	ZIP:	04401
Facility Or	n-Site Repre	esentativ	/e #1:					
	Name:		Bradley Moore					
	Title:		WWTP Superintendant					
	Phone #:		207 992 4471	Fax	x # / email:	Brad moore@	bangor	maine.gov
Facility Or	n-Site Repre	esentativ	ve #2 (if necessary):					
	Name:		Enter text					
	Title:		Enter text					
	Phone #:		Enter text	Fax	x # / email:	Enter text		
Section B:	Complian	ce Mon	itoring Information					
Clean Wat	er Act Secti	on (cho	ose from only one of the fol	_				
	CWA §308	8[A][B]	: NPDES	Co	mbined Sewe	er Overflows		
	CWA §311	1: Oil ar	nd Hazardous Substances	Ch	oose an item			
	CWA §404 Material	4: Permi	its for Dredge and Fill	Ch	oose an item			
Complianc	e Monitorir	ng Type	:	Ins	pection			
Complianc	e Monitorir	ng Reaso	on:	Co	re Program			
	If Agency	Priority	, then specify priority(s):					
		OECA	- CAFO					
		OECA	- CAFO Region Initiative A	Areas	3			
		OECA	- CSOs w/ < 50,000 service	e pop	oulation			
		OECA	- CSOs w/ >= 50,000 service	ce po	pulation			
		OECA	- MS4s Phase I					
		OECA	- MS4s Phase II					
		Region	n 1 - Environmental Justice					
		Region	n 1 - Green Economy / Green	n Inf	rastructure			
		Region	n 1 - Industrial Laundries					
		Region	n 1 - Lead Poisoning					
		Region	n 1 - Municipal Infrastructur	e				
		Region	n 1 - Pollution Prevention &	Res	ource Conser	vation		

Region 1 - Ship / Boat Yards		
Region 1 - Wet Weather		
Compliance Monitoring Agency Type:	EPA	
Was this a Joint Compliance Monitoring Activity?	No	
Which party had the lead?	Choose an item	n or leave blank if N/A
If State lead, what was the purpose of EPA participation?	Choose an item	n or leave blank if N/A
Section C: ICDS Information		
Did you observe deficiencies (potential violations) during the inspection?		No
Potential excess emission in violation of regulations:		
Potential failure to		
complete or submit a notification, report, certification, or n	nanifest:	
follow a permit condition(s):		
follow a required sample monitoring procedure or laborato		
follow or develop a required management practice or proce		
identify and manage a regulated waste or pollutant in any r	nedia:	
maintain a record or failure to disclose a document:		Ц
maintain/inspect/repair meters, sensors, and recording equi	pment:	Ц
obtain a permit, product approval, or certification:		
report regulated events such as spills, accidents, etc.:		Ц
Potential incorrect use of a material (pesticide, waste, product unapproved material:) or use of an	
Potential violation of a compliance schedule in an enforceable	order:	
If you observed deficiencies, did you communicate the deficiencies to the the inspection?	Facility during	No
If yes, did you observe the Facility take any actions during the address the deficiencies noted?	inspection to	No
If yes, what actions were taken? Choose an iter	n	
If the Facility reduced pollution, what pollutant was	reduced?	Enter text
Did you provide general compliance assistance in accordance with the poof the EPA inspector in providing compliance assistance during inspection		No
Did you provide site-specific compliance assistance in accordance with the role of the EPA inspector in providing compliance assistance during inspector.		No
Γ		
Comments: Was a RECON for sampling event later in the month. Did not contact city weeks after coordinating with the lab.	about recon. Pl	an is now to sample in two



United State Environmental Protection Agency

Field Code Changed

Region 1 One Congress Street, Suite 1100 Boston, MA 02114-2023

Confidential/FOIA Exempt/Not to be Released

Inspection Fields Notes/ Inspection Report

Date: June 7, 2013

Subject: City of Bangor MS4 Audit

City Hall

73 Harlow Street Bangor, ME 04401

From: Alex Rosenberg, CWA Compliance Officer

Office of Environmental Stewardship

To: FILE

Drafted Date: 6 25 13 Finalized Date: 6 28 13

Reviewed by: Andrew Spejewski

Reviewed date: 7 9 13

I. Facility Information

A. Facility Name: City of Bangor MS4

B. Facility Location: City Hall

73 Harlow Street Bangor, ME 04401

C. Facility Contact: Bradley Moore 207-992-4471
D. Contact Mailing Address: 760 Main St, Bangor ME 04401

E. Permit #: MER041026

II. Background Information

A. Date of inspection: June 7, 2013B. Weather Conditions: Clear, dry

C. US EPA Representative(s): Alex Rosenberg, EPA, Inspector - Lead

Andrew Spejewski, EPA, Inspector

D. State/Local Representative(s): David Ladd, MEDEP

E. Previous Enforcement Actions: On-going EPA CSO consent decree from 1990 that is currently being re-negotiated to include all aspects of CWA compliance including MS4

F. City Representatives: Wynne Guglielmo, Environmental Coordinator, Risk

Management Division, (207) 992-4255

Bradley Moore, WWTP Superintendent, (207) 992-4471

Peralie Burbank, Engineering, (207) 992-4245 David Gould, AICP, Planner, (207) 992-4280

Brenda Billotte, Code Department

G. EPA MS4 Previous Involvement

EPA inspector, Alex Rosenberg, has conducted a previous MS4 inspection in the City of Bangor September 13, 2012. Subsequent to that inspection and prior to this MS4 audit Alex Rosenberg has drafted a civil litigation report against the City of Bangor that included the MS4 program and therefore a detailed description of the City and its' MS4 program can be found in these documents (dated September 21, 2012).

Pre-Inspection

The inspection was arranged one week in advance by Mr. Rosenberg contacting Wynne Guglielmo via telephone and email.

III. Inspection

Opening Interview

By previous arrangement, all EPA, MEDEP and City personnel arrived at the City Hall at $8:00\,$ AM

In attendance were:

Wynne Guglielmo, City Bradley Moore. City Peralie Burbank. City Alex Rosenberg, EPA Andrew Spejewski, EPA David Ladd, MEDEP

Mr. Spejewski and Mr. Rosenberg showed their credentials. Mr. Rosenberg explained the purpose of the inspection.

All information following, unless otherwise noted, is from statements by City personnel.

System

There are no interconnections with other towns besides stormwater swales that discharge into Bangor from the neighboring municipality of Hamden. There are several other MS4s within the City: MEDOT, UMaine Augusta at Bangor, E Maine Community College, Air National Guard, Dorthea Dix (state offices), and Job Core (a federal program that is a residential community for vocational training). These entities all have individual MS4 permits and are members of the regional stormwater group: Bangor Area Stormwater Group or BASWG. Hussen University is also located in the city, but as a private entity does not require an MS4 permit.

General Program Organization

There has been a high rate of turnover in the City's staff tasked with MS4 program implementation. The City acknowledged that, over the past two years, the rate of turnover has made program management difficult and the City is still working out the details of how the program will be managed among the multiple city departments (e.g., planning, code, community and economic development, wastewater, engineering, finance and risk assessment (environmental), and public works) in the future. During this period of staff turnover, the City has hired and assigned MS4 duties to several individuals knowledgeable about permit requirements including the current environmental manager Wynne Guglielmo and an engineer Peralie Burbank.

The City has worked over the past couple of years on implementing a stormwater utility. The City hopes to have the first stormwater utility bills sent to property owners (not tenants) along with their regularly scheduled July, 2013 sewer bill. Although the City will still allocate funds to support MS4 permit compliance from its general fund, in the future, the plan is to have the stormwater utility provide the full cost of permit compliance (an estimated forty-five dollars per house). Starting in July, the stormwater utility is expected to raise twenty-two dollars per house or approximately half of the estimated cost of the MS4 program.

The City plans to have the wastewater superintendent, Bradley Moore spend twenty-five percent of his time as the manager of the MS4 program, and being ultimately responsible for all compliance activities. Bradley is one of approximately 6 city managers who are just below the City Manager. As wastewater superintendent he manages collection system maintenance crews who are in charge of stormwater catchbasin cleaning and have been in charge of dry weather outfall inspections at certain times in the past.

Education/Involvement

MCMs 1 and 2 are primarily handled by BASWG. According to Wynne Guglielmo, the city would be in full compliance with MCMs 1 and 2 if the municipality itself did no extra work, , however the City goes beyond basic compliance for these two MCMs. The City had a successful stream cleanup in the fall, with 300 Latter Day Saints volunteers and 25 staff from hotels.

This year the City plans to have the public help with deploying rock baskets in some of the impaired streams – a method of measuring in-stream macro-invertebrate population and health. 70 rain barrels were also given away by the City with instructions on how to install and maintain them.

Plastic 'No Dumping' signs will be installed on the City's catchbasins – they are given to various groups (including Hussen University) to install on their campuses.

The state has also been involved in education and outreach in the region by sponsoring the Think Blue campaign (thinkblue.org). The campaign is one of the nations' leading projects in identifying the effectiveness (audience reached) of stormwater outreach projects.

As part of the stormwater utility creation process the City implemented a stormwater citizens review panel which meets quarterly with Brad and other City officials and staff. This includes business owners and citizens.

Stream Sampling

Weekly stream sampling provides education and outreach as well.

Wynne Guglielmo has been stream sampling in each of the City's five urban impaired streams since February of 2013; parameters tested for are temperature, pH, DO, conductivity. She also has a bench top Nitrate analysis kit which she'll analyze the samples with.

There are no salt water outfalls, so E. coli is the bacteria that is sampled for. The City's POTW has the capability to run E. coli testing and Bradley and Wynne agreed to the fact that a quick screenings for E.Coli of any observed dry weather flows at stormwater outfalls would be a good practice.

The points that Wynne currently samples are not identical to those used by prior consultant.

There is no formal QAPP for the sampling, and data is kept in a log book and is then translated to an excel spreadsheet. Alex Rosenberg advised that without a QAPP, the data may not be useable for state/federal compliance demonstration or defense for or against an enforcement action. Mr. Rosenberg promised to send an example of the EPA Region 1 source tracking protocol as an example of a QAPP.

Wynne stated they would like data sondes for real-time monitoring, a \$67,000 investment for six units.

IDDE

Stormwater infrastructure mapping, as prescribed in Part IV.H.3. (MCM 3) of the MS4 Permit, had previously been identified by the City as an area of MS4 compliance deficiency. This was communicated to both the EPA and MEDEP over the past two years. In 2012 the City anticipated it would miss the July 1, 2013 MS4 Permit deadline for mapping all stormwater outfalls and catch basins and would not be able to complete this permit requirement before September, 2014. During the audit, the City indicated that it now expects to meet the permit deadline on time – completion of catchbasin, pipes (with flow direction) and outfalls by the end of the month. EPA inspectors viewed the GIS layers.

The City also plans to work towards integrating its GIS program (that currently houses sewer infrastructure attribute data) with its sewer system evaluation software IT Pipes. The maps include layers, yet to be completed, for nested MS4s, private systems and private control structures.

Inspections

Part IV.H.3. of the MS4 Permit (MCM 3) requires that the City develop and implement a prioritized dry weather outfall inspection plan. The City's protocol for dry weather inspections is not being followed.

In the past dry weather outfall inspections were conducted by two POTW operators who walked stream banks, mapped outfalls, and checked for illicit discharges using a standard form. Jeff Pelletier-Olsen (GIS staff) would then enter the results into spreadsheets, which were stored on City servers.

The field forms and spreadsheet was shown to the inspectors. There was no space to track who did the inspection on the field forms. One entry for Sucker Brook 001 that was reviewed indicated flow and odor and no follow-up was documented.

Wynne explained that inspections have not covered all outfalls within the prioritized watersheds as is required by the MS4 Permit. Additionally, standards are lacking for both the determination of whether follow-up is required from an initial dry weather outfall inspection and the tracking of completed Illicit Discharge Detection and Elimination ('IDDE') follow-up activities. When an illicit discharge is detected by City personnel, and is then eliminated, Wynne creates a timeline of events to print to a file. She will include any press releases associated with the occurrence in the file.

The City does not inspect all newly separated stormwater outfalls.

Construction

Public projects (City projects) are inspected by the Engineering Dept. on a daily basis. Tim Smith and Ted Trembly are engineering staff who have gone through stormwater inspection training.

Private projects are inspected by Code Enforcement out of the code department. In March, Jeremy Martin, the lead code enforcement inspector went out for a family emergency, and has only been working very occasionally since then [he was out the day of the audit].

Brenda Billotte is filling in; she was in the Health department prior.

Brenda arrived at the audit to be interviewed during the in office review. Brenda took a 1-day erosion control class in November 2012, and has inspected with Wynne once and never by herself.

Brenda explained the process for a construction site application being given by the City. Current practice is that when a building permit is issued it triggers a letter to be sent to the contractor that mentions the state Construction General Permit (usually this letter is given by hand to the permittee when they come to city hall). No mention is made of either the MS4 program or the 1 acre disturbed area threshold for MS4 tracking purposes.

Part IV.H.4.a. of the MS4 Permit (MCM 4) is a set of required strategies for implementing an enforceable program to reduce pollutants from construction site stormwater runoff. Strategy H.4.a. ii. requires the City to document every construction activity that disturbs one or more acres within the urbanized area. The City does not have a list of such activities and is therefore unable to track construction project status and the inspections that must correspond with distinct phases of each project. The City's internal system for construction permit application, approval and issuance of a certificate of occupancy involve multiple departments (e.g., planning, code, community and economic development, wastewater, engineering, finance and risk assessment (environmental), and public works).

Post Construction

Jeremy M., the code enforcement officer sends a letter asking property owners to submit maintenance plans to the Code department, which will pass to Engineering for review and inspection.

David Gould, City Planner, came to the audit's *opening interview* to answer questions about plan review. He stated that the standard that is tried to be upheld is to allow no downstream disturbance from post-construction run-off from a project. Engineering does the review and generally contacts the applicants if any changes are necessary; Planning will usually only hear from Engineering if there is a major problem (or when Engineering are ready to sign-off). After this brief discussion, David then left the audit.

Brenda stated that Code has a database that tracks building permit applications, but it only tracks applications for building permits and applications for certificates of occupancy. The only way to determine if a final Certificate of Occupancy has been issued is to check the paper files.

Wynne described what she sees as a good future plan of action for post construction monitoring:

- 1 Letter would go out to property owner from code department to generate list of applicable properties for MS4 program
- 2 Plans would go between code planning engineering and back to planning;
- 3 Code communicates to permittee.

Construction File Review

The following files in the Code Department were reviewed:

1 - Bangor Baptist; the file included an April 25, 2012 letter from ME DEP saying that the 8,000 sq ft addition on an existing parking lot does not require a state SW permit.

2 - Verizon/Telecom Drive; Nov 14, 2011 application for certificate of occupancy. Plans describe the project as removing 146 spaces of parking lot and replacing with new parking lot of 15,000 sq ft. A separate file had a letter to town saying the project was >1 acre but would get a Permit By Rule from the state construction stormwater permit. There was no planning board approval in the file even though the City requires this approval for any project greater than 10,000 sq. ft.. Also no approved or signed certificate of occupancy.

A permit by rule application was found in the file, dated 12/1/11 which is handled by the MEDEP (Jim Beyer's group).

- 3-17 Deer Pond; Residential building permit; not a complete file but also not applicable to MS4 program due to square footage.
- 4-CNG; Large construction project with the following project dates notes application for certificate of occupancy 4/17/13, application for building permit 6/3/13 and sediment pond plan 5/30/13.

Brenda explained that sometime the file will have more more than one application if a project has more than one phase, etc..

[break for lunch]

Housekeeping

At the DPW offices the inspectors interviewed the DPW Director Dana G.

While the POTW generally runs the sanitary sewer system, including repairs, DPW would repair broken storm sewer pipe.

Depending on the weather the City has one or two DPW crews employed at sewer and stormwater maintenance. Grit that is removed from stormwater catchbasins is put onto the bermed area or is taken to a permitted compost facility.

Streets are swept starting in spring, with a concentrated effort to cover the entire City. Thereafter downtown is swept weekly, and other areas regularly. School and City parking lots are swept. The City has three vacuum sweepers. Grit goes to another City site. The DPW yard is swept weekly. Street sweeping is conducted for 32 shift hours, five days a week for 6-8 weeks a year until October. Hot spots are defined

Catchbasin cleaning is done with both a clamshell and vacuum truck. The City plans to clean each catchbasin twice per year, with measurements of depth and sediment removed so that, in a couple years, they can determine the necessary frequency of cleaning. Foremen know a couple low-lying areas that require more frequent cleaning; the list is not written anywhere. Dana estimates 3,000 or more catchbasin.

Salt: All de-icing trucks are ground-speed controlled. Salt/sand mix in residential areas and some country roads. Downtown, only salt (as required by MEDEP air regulations). Average use per year is 6,000 yards of salt.

There is no routine replacement plan for storm sewer pipe. Lots of issues were found when the outfalls were mapped. The City is currently using IT Pipes, an asset management software package, for sanitary sewer and is planning on adding storm sewer to it as well.

Landscaping: DPW helps with some cemeteries, mostly just digging and filling. The only pesticide applications that Dana is aware of is at the golf course. Pest control for parks and schools is contracted out.

City Stormwater Permits

The wastewater POTW multi-sector general stormwater permit ("MSGP") is being folded into their NPDES permit. The DPWs' fleet maintenance yard had an individual MSGP but this is being folded into the City's MS4 permit. Bangor Area Transit is a City owned transportation group that has its own MSGP.

School buses are privately owned.

[At this point, all of the inspectors and Wynne Guglielmo visited two sites the DPWs' Fleet Maintenance Garage and the City's convention center contruction and demolition site (contracted to Cianbro).]

The DPW Fleet Maintenance garage and yard were immaculately clean. SPCC plan was up to date and in full-compliance.

Cianbro managed construction site. Sediment catchbasin filters were installed in all catchbasins. According to staff, sweeping is conducted approximately 8 times per day or more if needed. Paperwork was available for all stormwater inspections as required by the Permit.

Exit Interview

Mr. Spejewski and Mr. Rosenberg gathered the all the City personnel who were present at the opening interview into the conference room at the POTW to hold an exit interview. The only new face at the meeting was Art Morgan, the City's Engineering Director. EPA inspectors praised the City's transparency, hiring and work on the utility. Deficiencies with regard to compliance with the MS4 permit were summarized as the following list:

- IDDE program; dry weather inspection and follow-up protocol must be better implemented;
- Management; ensure that the program lead has authority and ability to coordinate across so many different departments; and
- Construction program must be better managed to allow for tracking of projects and their respective phases.



United States Environmental Protection Agency Region 1 5 Post Office Square, Suite 100 Boston, MA 02109-3912

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

JUN 2 8 2613

Bradley Moore, Superintendent
City of Bangor Wastewater Treatment Plant
760 Main Street
Bangor, ME 04401

Re: June 7, 2013 MS4 Audit, City of Bangor

Dear Mr. Moore:

The U.S. Environmental Protection Agency ("EPA") conducted a compliance audit of the City of Bangor's 2008 General Municipal Separate Storm Sewer System ("MS4") permit #MER041026 (the "Permit") on June 7, 2013. Although EPA led the audit, the state MS4 coordinator from the Maine Department of Environmental Protection ("MEDEP") was also present at the audit.

The audit assessed the City's programmatic management and compliance with each of the six Minimum Control Measures ("MCMs") that are requirements within the MS4 permit. The audit showed that there were several areas where the City needs to take action to bring itself in full compliance with the MS4 Permit requirements. During the audits' exit interview, the City requested that EPA send a written summary of its findings to the City. This letter is written in response to that request and contains a summary of EPA's findings and what was discussed during the exit interview.

There has been a high rate of turnover in the City's staff tasked with MS4 program implementation. The City acknowledged that, over the past two years, the rate of turnover has made program management difficult and the City is still working out the details of how the program will be managed among the multiple city departments (e.g., planning, code, community and economic development, wastewater, engineering, finance and risk assessment (environmental), and public works) in the future. During this period of staff turnover, the City has hired and assigned MS4 duties to several individuals knowledgeable about permit requirements. The City has worked over the past couple of years on implementing a stormwater utility. The City hopes to have the first stormwater utility bills sent to property owners along with their regularly scheduled July, 2013 sewer bill. Although the City will still allocate funds to support MS4 permit compliance from its general fund, in the future, the plan is to have the stormwater utility provide the full

cost of permit compliance (an estimated forty-five dollars per house). Starting in July, the stormwater utility is expected to raise twenty-two dollars per house or approximately half of the estimated cost of the MS4 program.

The City plans to have the wastewater superintendent spend twenty-five percent of his time as the manager of the MS4 program, and being ultimately responsible for all compliance activities. Going forward, the City needs to diligently evaluate the effectiveness of this arrangement.

Stormwater infrastructure mapping, as prescribed in Part IV.H.3. (MCM 3) of the MS4 Permit, had previously been identified by the City as an area of MS4 compliance deficiency. This was communicated to both the EPA and MEDEP over the past two years. In 2012 the City anticipated it would miss the July 1, 2013 MS4 Permit deadline for mapping all stormwater outfalls and catch basins and would not be able to complete this permit requirement before September, 2014. During the audit, the City indicated that it now expects to meet the permit deadline on time. The City also plans to work towards integrating its GIS program (that currently houses sewer infrastructure attribute data) with its sewer system evaluation software *IT Pipes*.

Part IV.H.3. of the MS4 Permit (MCM 3) also requires that the City develop and implement a prioritized dry weather outfall inspection plan. The City's protocol for dry weather inspections is not being followed. Inspections have not covered all outfalls within the prioritized watersheds as is required by the MS4 Permit. Additionally, standards are lacking for both the determination of whether follow-up is required from an initial dry weather outfall inspection and the tracking of completed Illicit Discharge Detection and Elimination ('IDDE') follow-up activities. The City needs to create and implement standards for conducting and tracking dry weather outfall inspection and follow-up activities in the required watersheds. The City should also systematically inspect all newly separated stormwater outfalls.

Part IV.H.4.a. of the MS4 Permit (MCM 4) is a set of required strategies for implementing an enforceable program to reduce pollutants from construction site stormwater runoff. Strategy H.4.a. ii. requires the City to document every construction activity that disturbs one or more acres within the urbanized area. The City does not have a list of such activities and is therefore unable to track construction project status and the inspections that must correspond with distinct phases of each project. The City's internal system for construction permit application, approval and issuance of a certificate of occupancy involve multiple departments (e.g., planning, code, community and economic development, wastewater, engineering, finance and risk assessment (environmental), and public works). A system must be implemented across these departments to allow for MS4 permit compliance.

In closing, EPA expects the City to address all MS4 program deficiencies identified during the audit as noted in this letter and that any problems or delays in moving toward compliance will be immediately communicated to EPA. The City should include in its next annual MS4 report to the MEDEP an update on its progress toward addressing the

identified deficiencies. Please copy EPA on this report. EPA and the MEDEP remain committed to assisting the City with its MS4 Permit compliance efforts.

If you or your staff have any questions regarding these findings, please contact me by phone at 617-918-1709 or by email at rosenberg.alex@epa.gov. Thank you again for accommodating us during the audit.

Sincerely,

Alex Rosenberg, Compliance and Enforcement Officer

Office of Environmental Stewardship

cc: Wynne Guglielmo, Environmental Coordinator, City of Bangor

Art Morgan, Director of Engineering, City of Bangor

David Ladd, MEDEP Brian Kavanah, MEDEP

Denny Dart, EPA

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United State Environmental Protection Agency Region 1 One Congress Street, Suite 1100 Boston, MA 02114-2023

Confidential/FOIA Exempt/Not to be Released

Inspection Fields Notes/Inspection Report

Date: September 13, 2012

Subject: City of Bangor MS4 Inspection

Engineering Department

73 Harlow Street Bangor, ME 04401

From: Alex Rosenberg, CWA Compliance Officer

Office of Environmental Stewardship

To: FILE

General Information:

All pictures taken on the inspection can be seen in the K Share @ Inspection Documents/Inspection Reports/Maine/City of Bangor/2012-9-13 City of Bangor MS4.

In-Briefing:

On September 19, 2012 the Region¹ was invited by Wynne Guglielmo (Environmental Manager for the City of Bangor) to attend the Bangor Area Stormwater Group's monthly meeting and then to tour stormwater BMP projects in the City of Bangor. David Ladd, Maine's MS4 coordinator attended both the meeting and tour.

BASWG Meeting:

The group discussed the role and make-up of the public outreach committee and what type of clothing design would be most worn for a general stream clean-up effort. I was introduced to the group. David Ladd was asked when the MS4 stakeholders would be given a chance to review proposed permit language for the 2013 MS4 permit reissuance. No answer was given by Mr. Ladd.

After the meeting, Wynne, Ladd and I sat and looked at some maps that Wynne had printed by the City of Bangor's GIS department. They depicted a large number of

¹ Alex Rosenberg

(approximately 3000) catchbasins and other stormwater infrastructure such as outfalls, and pipes. One map specifically displayed the stormwater BMPs that had been constructed by the City.

It appeared that a large portion of the stormwater infrastructure has been mapped, contrary to the City's insistence at meeting after meeting that they have not inventoried or mapped their complete stormwater infrastructure as of yet, and that this process will be done in 2014.

Alex Rosenberg presented his credentials to Wynne at this sit down opening interview.

Site Visit:

Sylvan Road – A perched culvert has been removed and a new culvert is being installed. Bank stabilization is planned as well as rip-rap of the flood plain surrounding the culverted area. In the same area the city has removed a water main and have installed a natural bottom arch on a road bypass downstream.

Art Morgan, who joined the site walk noted that Penjajawok stream restoration had finished 1,400 linear feet out of 98,000 total.

I took many pictures of this project and the stream upstream of this where between the Olive Garden restaurant and the K-mart the stream had been 'ripple enhanced' according to Art and Wynne. According to the city this has oxygenated the stream along with a groundwater underdrain that has been daylighted.

K-mart parking lot – According to Mr. Morgan, K-mart paid for porous pavement with the non-porous pavement section (1/3 of total area) draining to a detention pond which is now ill-maintained because the company isn't doing proper maintenance. Inspector observed the detention pond, and attests to the fact that it is not being maintained.

When the city redevelops Main Square Mall and McDonalds, Mr. Morgan hopes to implement similar sw BMP for the pervious areas.

Marsh – According to the city, there have been emplaced city ordinances to preserve and protect the marsh environment next to the Home Depot parking lot. A 200' buffer was established besides the box store and a 600' buffer from any residential neighbors. According to Mr. Morgan there have been a history of beavers in the Marsh below Stillwater Ave. which have disrupted the ecosystem and residents. By preserving the Marsh above Stillwater Ave. the city hopes to leave the beavers a large enough habitat where they can live and work.

River Bank – The group of inspectors and city officials visited the river bank 'shoreland' park on the Penobscot where according to Mr. Morgan the city has installed stormceptor units underneath the parking lot, treebox filters, dog poop bag stations and a rain garden.

He also mentioned that the city has just awarded the contract to have bio-retention cells also be installed between the downtown parking lot and the river.

Alex Rosenberg noted a flowing 6' diameter concrete outfall across the river in the city of Brewer, ME.

DPW Maintenance Headquarters – According to Mr. Morgan the DPW conducts prewetting when the temperature is below 20 degrees Farenheit during pre-storm conditions. He continued to explain that residential streets have anti-icing applied and that all of the sanding and de-icing activities are dispensed by computerized trucks. Residential and Country roads get sand applications.

The parking lot of the DPW headquarters, according to Mr. Morgan is going to have 5 Fabco bags emplaced in their stormwater drains. The city has 3 vac sweeper trucks and budgets 275\$ thousand dollars on sweeping annually according to Mr. Morgan.

Airport Stream – According to all present on the inspection, stormwater runoff from the DPW parking lot is discharged to this stream that creates a perimeter for the airport and is located approximately 200 meters from the DPW parking lot. According to Mr. Ladd, Gregg Bean of the MEDEP has been sampling this stream and coordinating the stream restoration projects. The stream runs along Union Avenue and under the airport before daylighting at this point next to the DPW. The stream then enters a spillway and weir before it discharges and becomes the headwaters of Birch Stream.

According to Mr. Morgan, Robert Beaton, manager of the Bangor International Airport (environmental division?) is in charge of stream protection when it is on or under the airport property.

DPW Maintenance Garage – Wynne Guglielmo stated that the maintenance garage was cited for RCRA violations 10 years ago. Wynne also mentioned that the facility has two USTs for leaded and unleaded gasoline. As time did not permit entry into the garage, nothing else was learned about the facility other than the fact that all DPW vehicles are maintained within the garage.

Bangor International Airport (BIA) tank farm – Facility representative Ricky Howard met us as we entered the site. The contact phone number for the site is 207-992-4643. According to Wynne, who stated that she has ultimate oversight authority for this facility in her position as environmental manager of the city, Robert Beaton manages this site which has a 2 Million gallon capacity to hold both Jet fuel and regular fuel. The compliance officer for the airport is Rodney Madden, who Wynne oversees.

I quickly looked at the plan and noted that it was dated 2/29/12 and was signed by Robert Beaton. The substantial harm criteria checklist 40 CFR 112.20(e) was not signed. According to Wynne, Rodney believes that the airport only needs the signed plan within a half mile of the facility. Wynne disagrees with him and believes that one should be kept on site.

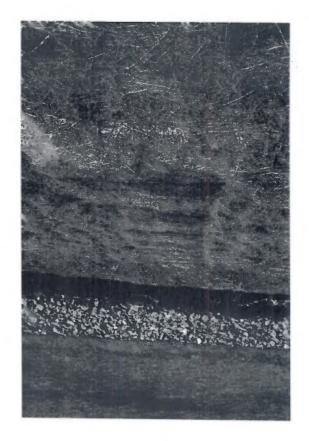
A site walk was conducted to inspect all of the ASTs on site. The large capacity oil tanks were well maintained and were clearly marked as to when the last inspections were and when the next inspections need to be scheduled. Containment areas were impeccably kept.

The vehicle fueling area had a stormwater catchbasin between the berms used as general secondary containment. No spill kits were identifiable when standing at the fueling station. The Jet A fuel sump tank container was uncontained, and was located approximately 10 feet from the catchbasin inside the fueling area. The re-fueling hoses were on the ground within the potentially trafficked area of the entrance driveway (also the fueling area). No locks were on the fuel hoses and therefore there existed a threat to vandalism and release of oil. The facility does have security lights, cameras and a locked gate.

Construction Inspection Form -City of Bangor, Maine MS4 PY5

			Photos TakenYes
			Contractor restabilized slope with erosion control tabric in washout areas
	ON	X□ s9Y	Are additional BMPs required for drainage or erosion control?
steep and loamed,			If yes, state corrective action & date completed_Washout was observed seeded, and mulched shortly before rainfall and did not have much time
	□ oN	X 🗆 səY	Are there signs of Sedimentation leaving the site?
			If no, state corrective action and date completed
	□ oN	X□ səY	Are onsite drainage control structures functioning properly?
			If yes, state corrective action and date completed
	X□ oN	□ səX	Is there offsite tracking of sediment or fill material?
-	1350 - 1530 - V	-	If no, state corrective action and date completed
	□ oV	X □ səY	Is Proper Erosion Control Systems Employed?
			Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)
Stream, Capehart	rook, Birch 5	8 sitsnA)_	Urban Impaired Watershed: Penjajawoc
- James C	re: _ drwede	utengið baoA na	Name of Site/Project:_Penjajawoc Stream Culvert Removal at Old Sylva
	2102/61/01		Name of Inspector: Amanda Soucier





Construction Inspection Form -City of Bangor, Maine MS4 PY5

Name of Inspector: July / Much	Date:	1-17-13
Name of Site/Project: Bury Puph 5	Signature	Mond
Urban Impaired Watershed: Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	(Arctic Brook,	(Arctic Brook, Birch Stream, Capehart
Is Proper Erosion Control Systems Employed?	Yes	No
If no, state corrective action and date completed	Yes	
If yes, state corrective action and date completed		
Are onsite drainage control structures functioning properly?	Yes	No
If no, state corrective action and date completed		
Are there signs of Sedimentation leaving the site?	Yes	Non
If yes, state corrective action & date completed		
Are additional BMPs required for drainage or erosion control?	Ves	NON
If yes, state corrective action & date completed)
Photos Taken		

Construction Inspection Form – City of Bangor, Maine MS4 PY5

Date: May 10 2013. Signature April of Heretic Brook, Birch Stream, Capehart	ON	NoN	Notice	Non	1dd i wold Benst Bit that most prod t
Name of Inspector: Wanter Termine Culture Courthering Site/Project: CUG Termine Carcher Such Jan Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	Are Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Is there offsite tracking of sediment or fill material? Yes	Are onsite drainage control structures functioning properly? Yes If no, state corrective action and date completed	Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed.	Are additional BMPs required for drainage or erosion control? Yes \Box If yes, state corrective action & date completed A Stoll pand we added to state corrective action & date completed A Stoll pand we added to be stollarly by the stollar of

Construction Inspection Form -City of Bangor, Waine MS4 PY5

Date: 3/14/13 Broad St.) Signature: Let B My (Arctic Brook, Birch Stream, Capehart	Yes Non 12:50 PM Sich	ASKED THAT DOWN STREAM CB TSC KROTECTED FROM RETHEN TO SITE @ 41:30 No CORRECT ACTION TAKEN - HOWEVER- PLIMPING WAS NOT CONTINUING NOOD	AGNO PRECIP PAREDICTED DIRECTED CONTRACTOR TO SCHEP IN AM - 3/15/13, B. 20 AM, STOPIN. AREA HAD BEEN SWEEP	Ves a Nox	LETED	Yes 7	HAS DECK SSEPT.	Yes M No 🗆	> NEED TO BE PASTECTED	
Name of Inspector: Apr Morty And 193 Name of Site/Project: LILLON ST. (SEWER SERVICE BROAD) Urban Impaired Watershed: PLADSCOT RIVER Brock, Penjajawoc Stream, Shaw Brook, Sucker Brook)	Is Proper Erosion Control Systems Employed?	If no, state corrective action and date completed ASKED THAT DOWN STILE 18 א ביזרב פיזר איזריאיין איייין איזריאיין איזריאיין איזריאיין אייריאיין איירייין איירייין איירייין אייריייין איירייין איירייין אייריייין אייריייין אייריייין אייריייין אייריייין אייריייין איירייייייין אייריייייייין איייייייייי	If yes, state corrective action and date completed 本ない。 Rec は アルビル AM - 3/15/13	Are onsite drainage control structures functioning properly?	If no, state corrective action and date completed אלסמב כמיף בדבי	Are there signs of Sedimentation leaving the site?	If yes, state corrective action & date completed 3/15/13 - AREA HAD DECKL SCHEET	Are additional BMPs required for drainage or erosion control?	If yes, state corrective action & date completed Down GRADE (B'> NEED TO	Photos Taken

| | Construction Inspection Form – City of Bangor, Maine MS4 PY5

Name of Site/Project: War Collection Remove Urban Impaired Watershed: Remove Brook, Sucker Brook)	Signature	Signature: Mark Stream, Capehart
Are Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Yes	ON
Is there offsite tracking of sediment or fill material? If yes, state corrective action and date completed	Yes	Nola
Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Yes	No 🗆
Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed	Yes	No
Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed The grass is the state of the state	West of the Manne	Non tell the service of the service
10000		

Construction Inspection Form - City of Bangor, Maine MS4 PY5

of Inspector: (1) who I. Oughtelle Date: Mach 14 2013)	Aeria (Urban Impaired Watershed: Alf (Arctic Brook, Birch Stream, Capehart Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	Are Proper Erosion Control Systems Employed?	If no, state corrective action and date completed	Is there offsite tracking of sediment or fill material? Yes No	Are onsite drainage control structures functioning properly?	If no, state corrective action and date completed	Are there signs of Sedimentation leaving the site?	If yes, state corrective action & date completed	Are additional BMPs required for drainage or erosion control?	If yes, state corrective action & date completed Post - Canche Fin (2000)
Name of Inspector:	Name of Site/Project:	Urban Impaired Brook, Penjajav	Are Proper Erosi	If no, state corre	Is there offsite tra	It yes, state court Are onsite drains	If no, state corre	Are there signs o	If yes, state corre	Are additional BA	If yes, state corre

Construction Inspection Form -City of Bangor, Maine MS4 PY5

Signature: 10/22/2 120/2 Signature: Han (Arctic Brook, Birch Stream, Capehart 1. Stime for of roll 10/20/2 2 2 2/2/2 Source Rolling 12/20/2 2 2 2/2/2 Ves pure of pendeus 12/20/2 2 2 2/2/2 Not breaches.	Ves a No p	Ves p	Yes - Nog	Ves a No P	Ves of Wolev Front No. 1 Photor / 10-22-12 Aid through Book Mulub Born.
Name of Inspector: Teffrey Hllow Name of Site/Project: Illuminated Wolkway Urban Impaired Watershed: Raw Brook, Stock Rivar Brook, Penjejawoc Stream, Shaw Brook, Sucker Brook) Is Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Is there offsite tracking of sediment or fill material? If yes, state corrective action and date completed	Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed	Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed	Were photos taken? If yes, list file names and location ever supering Projects Mixe. Shows every print to filtring to

1054 -Construction Inspection Form -City of Bangor, Maine MS4 PY5

Name of Inspector: Wantershed: Reward Color Colo	Signature: Mun Signat	Signature: Marked Capehart (Arctic Brook, Birch Stream, Capehart
Are Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Yeex	No □
Is there offsite tracking of sediment or fill material? If yes, state corrective action and date completed	Yes	Nola
Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Yesk	No 🗆
Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed	Yes	NO
Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed The gruss is the first of the state	Short den	Jense Talek which
6		

Construction Inspection Form –City of Bangor, Maine WS4 PY5

Name of Inspector: () MAND J. CUS KICUM	Date: Mosc	2013/
Name of Site/Project:	Signature	Mary Stall In
Urban Impaired Watershed: Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	(Arctic Brook	(Arctic Brook, Bkroh Stream, Capehart
Are Proper Erosion Control Systems Employed?	Yes	No ON
If no, state corrective action and date completed		
Is there offsite tracking of sediment or fill material?	Yes	ON
Are onsite drainage control structures functioning properly?	Yes	No 🗆
If no, state corrective action and date completed		
Are there signs of Sedimentation leaving the site?	Yes	N
If yes, state corrective action & date completed		
Are additional BMPs required for drainage or erosion control?	Yes	No.
If yes, state corrective action & date completed Ort - Canch	de l'or	
R	iter	
	34	

Construction Inspection Form - City of Bangor, Maine MS4 PY5

Name of Inspector: Wynne Guglielmo	Date: April 5, 2013	5, 2013
Name of Site/Project: Broadway Lateral Sewer Easement	Signature:	When J. Legliel
Urban Impaired Watershed: <u>No but Shoreland Zoning Project – Burly Brook</u> (Arctic Brook, Birch Stream, Capehart Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	<u>ok</u> (Arctic Brook, E	sirch Sweam, Capehart
Are Proper Erosion Control Systems Employed?	Yes X	No
If no, state corrective action and date completed NA		
Is there offsite tracking of sediment or fill material?	Yes 🗆	Nox
If yes, state corrective action and date completed NA		
Are onsite drainage control structures functioning properly?	Yes X	Non
If no, state corrective action and date completed NA		
Are there signs of Sedimentation leaving the site?	Yes 🗆	No X
If yes, state corrective action & date completed NA		
Are additional BMPs required for drainage or erosion control?	Yes X	0
If yes, state corrective action & date completed: Requested that entire Roadway is mulched. Silt fencing, rip rap and double mulching is present along the entire project adjacent to Burly Brook. Before the end of the day, Friday, April 05, 2013, the entire roadway is to be mulched.	lway is mulched. S Before the end of	illt fencing, rip rap and the day, Friday, April 05,

Construction Inspection Form - City of Bangor, Maine MS4 PY5

Mind wast

Name of Inspector:	Date: NOV	100
Name of Site/Project:	Signature	
Urban Impaired Watershed: Brook Penjajawoc Stream, Shaw Brook, Sucker Brook)	(Arctic Brook, Birch Stream, Capehart	n, Capehart
Are Proper Erosion Control Systems Employed?	Yes 🗆 Nổ 🗠	
If no, state corrective action and date completed	The Court is the C	
terial?	Yes - No o	
If yes, state corrective action and date completed		
Are onsite drainage control structures functioning properly?	Yes	9.
If no, state corrective action and date completed	1	8
Are there signs of Sedimentation leaving the site?	Yes⊲□	2.
If yes, state corrective action & date completed		
Are additional BMPs required for drainage or erosion control?	Yes	*
If yes, state corrective action & date completed	M. Carre Got	

Construction Inspection Form -City of Bangor, Maine MS4 PY5

Name of Inspector: Settircy Hillen	Date: (C	2/ 02/25/10
Name of Site/Project: (ourert Veuye	Signature:	GHEN All
Brook, Penjejawoc Stream, Shaw Brook, Sucker Brook) 1.8+ inchy of sein 2 has on 10/24/2.	(Arctic Brook	Birch Stream, Capehart
Is Proper Erosion Control Systems Employed?	Yes	No
If no, state corrective action and date completed		
Is there offsite tracking of sediment or fill material?	Yes	No
If yes, state corrective action and date completed Self defensed	. 4	61 by silt seek in CB
Are onsite drainage control structures functioning properly?	Ves E	No
If no, state corrective action and date completed		
Are there signs of Sedimentation leaving the site?	Yes	Nogo
If yes, state corrective action & date completed		
Are additional BMPs required for drainage or erosion control?	Yes	Nogo
If yes, state corrective action & date completed		
Were photos taken?	Yes	NOE
If yes, list file names and location	10	

Construction Inspection Form - City of Bangor, Maine MS4 PY5

Name of Inspector: LW / MW fr	Date: 5-10-12
Name of Site/Project: All Foulthy -54 Bluck Proban Impaired Watershed: Koullaheus Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	\\
Is Proper Erosion Control Systems Employed? If no, state corrective action and date completed $\int\!$	hay - spile with contrale
Is there offsite tracking of sediment or fill material? If yes, state corrective action and date completed Cod- Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	in vond any gestly to the Busin Spoke with contract. Nes no No no
Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed 1006	Yes and hos
Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed $\int_V \left\{ + \right\}$	rest No
Photos Taken ((0 U) Sume	dy issusadding

Construction Inspection Form -City of Bangor, Maine MS4 PY5

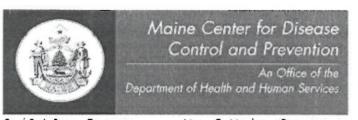
Name of Inspector: Juy I Wurk Name of Site/Project: 2(Decu find	Date: // Signature:	7-17-12 Ph
Urban Impaired Watershed: Lew Mas Very Stream, Shaw Brook, Sucker Brook)	(Arctic Brook,	(Arctic Brook, Birch Stream, Capehart
Is Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Vesi	No ON
Is there offsite tracking of sediment or fill material? If yes, state corrective action and date completed	Yes	NOU
Are onsite drainage control structures functioning properly? $\mathcal{W}(\mathcal{H}$ f no, state corrective action and date completed	Yesk	Noss
Are there signs of Sedimentation leaving the site? f yes, state corrective action & date completed	Yes a	HON
Are additional BMPs required for drainage or erosion control? f yes, state corrective action & date completed	Yes 🗆	NO
Photos Taken		

Construction Inspection Form -City of Bangor, Maine MS4 PY5

1.2	ment of	sopheted 5-		varital
5-29-12	Nog (0 0 V	≥ oN	No
Signature: AM///A	we not itsed of contrastructural	Yes	Yes 🗆	Yes X (0-6-1
Name of Inspector: Name of Site/Project: (a) [Mary [MM M M M M M M M M M M M M M M M M M	Is Proper Erosion Control Systems Employed? If no, state corrective action and date completed Spolu of Control Yes Is there offsite tracking of sediment or fill material? Yes	Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed	Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed Russymbhotos Taken

Construction Inspection Form -City of Bangor, Maine MS4 PY5

Name of Inspector: LAUM MW/	Date:	7/17/12
Name of Site/Project: (1 (Llt WM.) MANN MY MANN Urban Impaired Watershed: Dr. (St. Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	Signature:(Arctic Brook,	Signature: (Arctic Brook, Birch Stream, Capehart
Is Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Yes	No 🗆
Is there offsite tracking of sediment or fill material?	Yes	No
Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Yes	No
Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed	Ves 🗆	Noe
Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed	Yes	Nac
Photos Taken / U		



Department of Health and Human Services Health and Environmental Testing Laboratory 221 State Street

= 12 State House Station

Augusta, Maine 04333-0012 Tel: (207) 287-2727: Fax: (207) 287-6832

TTY: 1-800-606-0215

Paul R. LePage, Governor

Mary C. Mayhew, Commissioner

ERIN TRAINOR
US ENVIRONMENTAL PROTECTION AGENCY
11 TECHNOLOGY DRIVE
NORTH CHELMSFORD MA 01863 Fax#:

Project Name: BANGOR 070BB

No. of Samples in Folder: 6

1031457001

1031457002

1031457003

1031457004

I031457005 I031457006 Logged:

7/8/2013

5:07:00PM

Folder/ Invoice #

I031457



Released:

7/10/2013

Case #:

CERTIFICATION

The HETL hereby certifies that all test results for this report were analyzed by the method listed and meet all NELAC requirements, unless otherwise noted.

Kenneth G. Pote, PhD., Director

Richard French, Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

Thomas Crosby

Inorganics Supervisor/Chemist III

Thomas Crosby

Page 1 of 4

7/10/2013

10:31:26AM

CC:

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY - Visit our Web Site at: http://www.state.me.us/dhs/etl 221 State Street, Station #12 Department of Human Services Augusta, Maine 04333 Tel. No. 207-287-1716 Fax. No. 207-287-6832

Continued from Previous Page	HETL Folder Number:	1031457		
HETL Sample Number: 1031457001			Description:	PJ-2-3 NP-H20
Matrix: NP-H20			Sample Point:	
Sampler: ALEX ROSENBERG			Sample Date:	7/8/2013 Time: 12:50:00
Analyte Result	Units Qualifier	RL	Method	Analyst Analysis Datetinoe
E. coli 1300	MPN/100 rol	1.0	9223 B	johnc 07/08/2013, 17 58
HETL Sample Number: I031457002	:		Description:	PJ-04 NP-H20
Matrix: NP-H20			Sample Point:	
Sampler: ALEX ROSENBERG			Sample Date:	7/8/2013 Time: 13:10:00
Analyte Result	Units Qualifier	RL	Method	Analyst Analysis Dateume
E. coli 488.	MPN/100 ml	1.0	9223 B	johnc 07/08/2013, 17:58
HETL Sample Number: 1031457003			Description:	CB-01 NP-H20
Matrix: NP-H20			Sample Point:	
Sampler: ALEX ROSENBERG			Sample Date:	7/8/2013 Time: 14:00:00
Analyte Result	Units Qualifier	RL	Method	Analyst Analysis Datetime
E. coli 2620.	MPN/100 ml	100	9223 B	johnc 07/08/2013, 17.58
HETL Sample Number: 103145700	ŀ		Description:	BR-04 NP-H20
Matrix: NP-H20			Sample Point:	
Sampler: ALEX ROSENBERG			Sample Date:	7/8/2013 Time: 14:55:00
Analyte Result	Units Qualifier	RL	Method	Analyst Analysis Datetime
E. coli 1300	MPN/100 mi	1.0	9223 B	johne 07/08/2013, 17 58
HETL Sample Number: 103145700:	5		Description:	BRBBHYB NP-H20
Matrix: NP-H20			Sample Point:	
Sampler: ALEX ROSENBERG			Sample Date:	7/8/2013 Time: 15:00:00

Page 2 of 4

7/10/2013 10:31:26AM

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY - Visit our Web Site at: http://www.state.me.us/dhs/efl 221 State Street, Station #12 Department of Human Services Augusta, Maine 04333 Tel. No. 207-287-1716 Fax. No. 207-287-6832

Commond from Previous Pa;	2V	1115	TL Folder Number:	1031457			
Analyte	Result	Units	Qualifier	RL	Method	Analyst	Analysis Datetime
E. coli	687	MPN/100 ml		1.0	9223 B	johne	07/08/2013, 17 58
HETL Sample Number:	I031457006				Description:	BR-01 NP-H20	
Matrix: NP-H20					Sample Point:		
Sampler: ALEX ROSENB	ERG				Sample Date:	7/8/2013	Time: 15:40:00
Analyte	Result	Units	Qualifier	RL	Method	Analyst	Analysis Datetune
E. coli	1553.	MPN/100 ml		1.0	9223 B	johnc	07/08/2013, 17 58

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY - Visit our Web Site at: http://www.state.me.us/dbs/etl 221 State Street, Station #12 Department of Human Services Augusta, Maine 04333 Tel. No. 207-287-1716 Fax. No. 207-287-6832

Continued from Previous Page

HETL Folder Number:

1031457

Units & Measurement

"mg/L" = Milligrams per liter; "ug/L" = Micrograms per Liter; "mg/Kg" = Milligrams per Kilogram; "ug/Kg" = Micrograms per Kilogram; "PPM" = Parts per Million; "NTU" = Nephelometric Turbidity Units;

All solid results on a "Dry Weight" basis

NC = Not confirmed NQ = Not Quantitated NA = Not Analyzed J = Approximately U = Undetected R = Rejected

RL-Reporting Limit, the lowest concentration which can be reliably reported on a routine basis

"<" = Less than

">" = Greater than

Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

Disclaimer

Your report consists of the number of pages listed on the cover page. Any attachments after the last numbered page are for informational purposes only and not part of the formal report.

The results in this report are for the submitted sample(s) only.

This report shall not be reproduced, except in full, without written permission from the Maine Health and Environmental Testing Laboratory.

State of Maine Health and Environmental Testing	Lab					- of - Custody	Sample Date:	4/8/13
221 State Street Station #12	Augusta, ME 04	333-0012			TO	31457	Town/County:	BANGOR
Phone (207) 287 – 2727	Fax (207)287	-1884				3 (10 1	Project Name:	BANGOROFOB
Compar 11 TECHNOLOGY DRIVE	ION AGENCY		Аррі	ropriati	on/PO#		Compliance sample	Y / N
Contact: NORTH CHELMSFORD, MA 018) C 2 K 2 4 2 2 2 2 4 4		Bill 1	Го:			Сору То:	
Address			Add	ress:			Address	
ECOLI_QUANT-EFFLUENT	1031457 ISEPA3							
Phone: This kit expires on 75 2014			Pho	ne:		Fax:	Phone:	Fax:
e-Mail ac	<u> </u>	· · · · · · · · · · · · · · · · · · ·	e-Ma	ail addr	ress:		e-Mail address	
Sample ID PJ - 2-3 PJ - 0 4 CB - 0 1	Sample time 1310	Container vol	Container type Quantity	Grab or Composite	Matrix: Ground Water Waste Water Drinking Water Solids C.her	Analyses Require	Fluent	HETL Number 103 457 - 00 002
38-04	1955		-	-				003
BEER IT NO	1300	1	-				···	004
BR-01	1540	+ +	+					005
								or 006
Notes:					<u></u>			
Sampled By Alex Rosenber	Date/Time	7/8/	13	Recei	ved By	↑ \ Date/T	ime	
Relinquished By	Date/Time			Recei	ved By	A Date/T	ime JII	08/13 84 5:02:20 67
Relinguished By	Date/Time			Recei	ved Bv	Date/T		The state of the s

Custody seal intact (Yes or No)

Fax Results (Yes or No)

Rush (Yes or No)

Temperature on Arrival

°C

2013 Sweeping and Catch Basin Report

Catch Basins Cleaned	87
Catch Basin Debris	18 Cu Yds
Sweepings	834 Cu Yds
Sweeping Manhours	618 Manhours
Miles swept	1159 Miles

Streets are swept daily Monday thru Friday. This usually starts March or 1st of April and runs until November according to the type of weather we get as it nears winter. The above figures are from 3/4/13 to present.

CATCH BASIN CLEANING & EVALUATIONS FY 13 BASIN CONSTRUCTION & CONDITION

							BASI	BASIN CONSTRUCTION & CONDITION	& CONDITION											
Done Ewilby Distric-G	Eal by Distric CB# 6PS Coordinates	Physical Location		Cover		Frame	Risers Bricks	, W	æ.	1	ne is		Outlet	4		Diometer TOF-Woter	TOF. Solid	TOF-Bottum	duns	gett (Co yds)
			Type	Condition Type	Type	Condition	# of Rows Condition	n Type Condition	Type	Condition # of Size		Condition Size	Condition	Condition Y or N Condition	_					
7/10/12 Turner E	NM4"48.572W068"46276 Salvation Army S Park	6 Salvation Army S Park	Round	bood			2 0		Concrete Good	2		šo :	600d	Yes	Steel	4.00 4.67	6.75	7 92	3.25	0.54
7/10/12 Turner E	N44*48 582W068*46 239 S Park #75	9 SPark #75	Reund	9009	Round 4"	6000	0 0	Concrete Good	Concrete Good	9 9		12.	poog	2 2				800		0.00
7/10/12 Turner E	N44"40:386W060"46.235 3 Park @ Park	NA44-461386W066-46.236 3 Park @ Park	Donard		Pound 4"	1004	All Poor		Brick Poor	yes 16°		°eo		Yes						000
7/10/12 Turner E	N44"49 130W068"46,719	53 Pleasant View	Round	-	Round 4"	6000	N	2	Concrete Good	yes 12"	Good		poog	2						680
7/10/12 Turner E	N44*49 133WO6B*46.702		Round	6000	Round 6"	6000			Concrete Good	ê		.21	poog	2	4			5.92		0.70
7/10/12 Tumer E	N44*49.135W068*46,712	Fowler Wall Side	Square		Square 8°	900g	0		Concrete 600d	yes 12°15'	15° 600d		9009	ž ž	•	400 442	2 517	600	4.42	241
7/10/12 Turner E	144*49.125W068*46,725	5 54 Pleasant View	Round	-	Round 4"	6000	0 2 6sod		Concrete 5000	2 2		2 2	pood	2 2	. 4					140
7/10/12 Turner E	1044*49:929 W068*46:440 21 Labarca	0 21 Labarca	Square	9000	Doumd 6"	9000	O I Boor	Concrete Good	Concrete Good	yes 12*			bood	2				5.17		0.35
7/10/12 Turner E	N44-49.929W068-46-434	4 CO Labouros 4 Informa D Greenfeeld Middle of Dood	Round	-	Round 4"	6000			Concrete Good	yes 15	15°18" 600d	18.	poog	2	4			8.42		3 9 2
7/10/12 Turner E	N44*48 696W068*46 467		Square		Square 6"	6000	0 1 6xed		Concrete Good	8		ь	600d	Yes	4	4,00 4,42		6.00	1.58	3.35
7/10/12 Turner E	N44*48.753W068*46.289		Round	Poog	Reund 6"	600d			Brick Four	2		***	Good					7.58		5.73
7/10/12 Turner E	N44*48.753W068*46.295		Round	300	Round 6"	poog	₹			Q.		00 :	600d	Yes 8	Brick 4			833		610
7/10/12 Tumer E	N44*48.707W068*46.365		Square		Squore 6"	6000	0 1 600d	Concrete Good	Concrete Good	or sak	9000	4 6	pood	s 2		4.00 2.67		8.8	101	080
7/11/12 Turner E	144-49,542W068-46,902	Z Husson & Broadway	Dound		Dound 6"	Gred			Concrete Good	yes 15'8'	B. 6cod		6000	2	4	00 3.33	3 4.25	5.33		090
7/11/12 Turner E	N44*49.517W068*47.002		Round		Reund 5"	6000	-		Concrete 600d	Yes 8"		.80	900g	2	4			508		99
7/11/12 Turner E	N44*49.507W068*47.049		Round		Round 6"	Poog			Concrete Good	,9.8 sak		60	60ed	2				892		000
7/11/12 Turner E	N44*49.514W068*46.978		Round		Round 67	P00-9	2		Concrete Good	yes 8°	9009		600d	2 :	4	4.00 4.33				0.43
7/11/12 Turner E	N44*48.708W068*46.366		Square	-	Square 6"	poog	1 6000	Concrete Good	Concrete Good	ou .	Band	p i	D000	2 2	4		3 4 63	90.0	622	9 0
7/11/12 Turner E	N44"50 174W068"47 484	4 Burleigh Rd Tom T	Square		Square 6	P000		Concrete Good	Concrete 6 ood	2 2	3		Pood	2	4					200
7/11/12 Turner F	N44*50.272W/068*47.338		Soughe	poog	Soughe B"	P009			Concrete Good	yes 6.4	0.70	.8	poog	2	4					28
7/11/12 Turner E	N44*50250W068*47.377		Square	-	Square 8°	6000	0 0		Concrete Good	yes 6.	6000	*0	Poog	2	4					47
7/11/12 Turner E	N44*50.183W068*47.493		Square	1,000	Square 8"	Seed			Concrete	yes 15.				2 :	4			7.58		0.85
7/11/12 Turner E	N44*48.086W068*45.948		Square	0711	Square 8"	600d	0 1 Fair		Concrete 600d	yes	0000	.21	pood	2 2	4 4	00 4.92	5 6.42		997	950
7/11/12 Turner E	N44*48.086W068*45.941		Square	0000	Squore 8	pood	0 0	Boore 6000	Concrete Good	ves 15	Geed	15.22	0.00	2 2	r er					2.17
7/12/12 Turner E	N44*49.093W068*45.010	2 389 At Hose	Round	7007	Round 5"	Good			Concrete Good	yes 6.1			107.1	ž	4	00 4.08		4.08		06
7/12/12 Turner E	N44*49 082W068"45 038 370 M+ Hope	8 370 Mt Hope	Round				0 2	2	Concrete	,9.8 sak				Yes			3,45			68
7/12/12 Turner E	N44*49,058W068*45,086	6 344 Mt Hope	Round	-			2 1 600d	2	Concrete Sood	yes 6'2	Good	.2.9	poog	2	4			7.58		96
7/12/12 Tumer E	N44*49.668W068*47.016		Square	Good	Square 8"	Good	0 0	Barrel Good	Concrete Good	0 0		2 6	Good	Yes Nh	4 4	4.00 3.42	6.50			100
	N44*49.647W068*46.997	7 Broadway & Grandview	Square	700	Square 8	poop	o o	Concrete Good	Concrete Good	wes 12.	Good		6000	2 2	4					99
7/12/12 Turner E	NA4"49 593W068"45.170	O Alle Home 49 Flacont State Se	Souther		Square 4°	600d			Concrete	yes 14*	Good		Good	2	*					0.85
7/12/12 Turner E	N44*49.505W068*43.211	1 Mt Hope @ State St	Square	0.7					Concrete Good	yes 14"	6000		6000	2	*			00.9		1.05
7/12/12 Turner E	N44*49.043W068*46.453	3 Center @ Poplar	Round	0.50	Round 6"	P009	0 1 600d		Concrete Good	yes 6"	Good	ŝ	Good	2	4	00 417	467			0 20
7/12/12 Turner E	N44*49,412W068*46,780		Square	3.600	Squore 8"	Good		Concrete Good	Concrete 600d	2		12:	6000	ž	र्षे				200	0.93
7/12/12 Turner E	N44*49.332W068*46.70I	1 Broadway The Furniture Store	Square		Square B		000	Concrete Good	Concrete Good	8		14"	6000	ž		5.33	5.33			000
7/12/12 Turner E	N44*49.226W068*46.602		Square	6000	Square 8"	bood	0 I Foir		Concrete 600d			18	6000		चे				2.25	99'0
7/12/12 Turner E	N44*49.219W068*46.593	3 546 Broadway	Square		Square 8"	Good	0 0		Concrete Good	4		56.	6000	2	4	00 2.50				1.05
7/12/12 Tumer E	N44*49 050W068*46.456		Round		Round 6"	600d	00	Bar/Con 600d	Concrete 500d	100	Sand	22	Pood Sond	2 2	4, 10		3.08	4.50	621	0.58
7/13/12 Tumer E	NM4"49.477W068"46.841 NM4"49.385WID68"46.743	1 Broadway Wollgreens 3 Broadway Bonk	Southe	Bood	Square 8"	Good	0 2 600d	Concrete Good	Concrete Good	2 2		-21	Good	2	4		7.08			760
7/13/12 Tumer E	N44*49.283W068*46.656		Square	60ed	Square 8"	600d	0		Concrete 600d	yes 12"	Good		Pood	2	4					0.73
7/13/12 Tumer E	N44*49.183W068*46.562		Square		Square 8"		0 0	Concrete Good	Concrete Good	2 1		. i	house	2 2	4, 4		5,75		0 000	76.0
7/13/12 Turner E	N44"49.145 W068"46 524		Square	peop	Same R.	Powd	000		Concrete Good	2 2		15.	Poog	2	1 72					0.62
7/13/12 Turner E	N44"49,066W068"46,447	17 Broadway Jitty Print 17 Broadway Island © Center	Square	peod	Square 8"	Good	0		Concrete Good	2		15.	6000	2	2.	2.17 4.50		4.50		0.62
7/13/12 Turner E	N44*49,057W068*46,440 Broadway @ Center		Square	900g	Square 8*	6sod		2	Concrete Sood	yes 6°	9009	12,	poog	ž	4					980
7/13/12 Turner E	N44"48.984W068"46.365		Square	P009	Square 8"	6 ood	0 2 Good		Concrete 600d	100	Anna	P	Sood	s d	9, 4		3,50			0.37
7/13/12 Turner E	N44"48.909W068"46.304	24 Broadway St Jees	Square	poog	Square 6"	Good	0 0 3 Feir	Concrete Good	Concrete Good	10 ou	2000	4 60	Good	3 2	4			5.56	2.41	1.12
7/13/12 Turner E	N44"48.762W068"46.225		Square	peog	Square 8"	Geod			Concrete 600d	92		io.	poeg	2	40				-	-2.13
7/13/12 Tumer E	N44"48,657W068"46.196		Square	Poog	Square 4"	Bood	0 1 6ood		Concrete Good	,9 sad	Poog	6	poog	ž	4					2.13
7/13/12 Tumer E	N44"48.589W068"46.175		Square	P009	Square 8"	poog			Concrete Good	110		io i	Good	yes :	4					1.82
7/13/12 Turner E	N44"48.496W068"46.149		Square	Peop	Square 6	6000	0 1 5000	Concrete Good	Concrete 5000	9 9		2 %	pood	Nes Ne	. 4	X 533	5.83	7.25	192 0	60.00
7/13/12 Turner E 7/13/12 Turner E	N44"48,357W068"46,107 N44"48,282W068"46,087	7 Broadway & Someract 37 Broadway @ Penobscot	Round	D000	Square 8	poog	O All Fair	Brick Fair	Concrete Good	2		10	Good	Yes	40	400 6.25	976			0.35
7/13/12 Turner E	N44"48.189W068"46.062		Square	6000	Square 8"	6000	0	Concrete Good	Concrete Good	2	8	181	Peop	9	40	00 6.33	6.33	8 42 2	2 09 0	260
7/13/12 Tumer E	N44"48,124W068"46.037		Square	9009	Square 8"	poog	0 2 6eed	Concrete Good	Concrete Good	yes 8,	6000	100	P00-9	ž	40					36

8/1/12 Turner E				-								1	A poor		400	317 4	17 533	2 14
	N64*48 339W068*45 665 51876 W Parkview	Square	600d	Square 8	500d	0	Concrete 60	od Concrete Good	ood yes	10.	6000		-	op.				-
	N44*48.325W068*45.708 Store @ Palm			uare 6	bood	0 0			ou poo		1135	9 0	peo		400	5.00 6	67 7.63	2.83
	NM4*48 692W068*44 666 State @ Cascade Pork				Sood	0 0	ste.	(5)	ou poo			4	u poo	•	400			28
8/1/12 Turner E		-		luare 3"	5000	O All Fair			ou poo		-550	4	A poo	5.0	4.00			3.50
	N44*48855W068*45566 M+Hope @ Fern			.9 pun	poog	0 6 6000	177.0	d Concrete 6	ou poo		27 (S)	9	u poo		400	4.00 7	7.00 10.00	9 9
9/28/12 Turner E				luare 3"	bood	0	Concrete		ou poo				y boo	2 :	8 4	3.67 4		2.08
9/28/12 Tumer E	N44*48 274W068*45 839 156 State			Square 6"	Good	O All Good			ou 900				bood y		8 9		402 542	1.62
10/2/12 E	NA4*47979W068*46.069 Exchange @ Woshington			luare 6	0000	3 600	Concrete So.		ou poo			, 45	u poo		4 00		5.83 6.83	2.41
10/2/12 E	NA64-49 CVAW COOK 40-40-40-40-0-0-0-0-0-0-0-0-0-0-0-0-0-0	Soupre		udre 8"	2000	0		Concrete	67		-	4	۸	6.5	4.00	5.92 6		2.08
Turner	N44*48 067W068*46 035 255 Fssex			und 6°	900g				ou poo		4		y boo	10	4.00	5.17 6.	25 7.83	2.66
10/17/12 Turner E	N44*49 478W068*47.072 Hussen Ave (across from 302)			und 6°	Sood		Concrete		000 000			4		Q	4.00	4.42 4	6,75	2.33
12/6/12 Turner E	NH4*49.632W068*48.262 30 Griffin		6 god R	Round 6"	600d	0 1 600d	Concrete		sad poo	4.15. 6	6 bood	5.	600d No	9	4.00	3,83 3,		1.92
12/5/12 Turner E				and 47	Sood				sad pee		poe	5. 6				5.33 5.	33 7.17	8.00
12/5/12 Tumer E		Square	Ś	Square B*			Concrete		2		A.1.	io i		•	400	9.50	_	8 8
12/5/12 Tumer E	N44*48,675W068*46,064 292 Essex	Round 6		ond 6°	Good	0 25 600d	Concrete		ou poo		1	5 .	Pood Y		400	6.33 8		8 8
12/5/12 Tumer E	N44*48.739W068*46.08I 324 Essex	Round		Round 6"	poog		Concrete		ou por			2 1			400	3,42	100 10	8 8
12/5/12 Turner E	N44*48.778W068*46.085 336 Essex		600d R	Round 6°	poog		Concrete		0u por		7	9 4			3 8	8 36 B	200	90.00
12/18/12 Tumer E	NA4*50.577W068*47.670 23 Lassile			ond 6"	Bood		Concrete		200 703	121	000	9 4			8 8	4.68 4	3	8 8
12/18/12 Turner E	N44"50.593W066"47.683 Lawline @ Castle Hill			Square B	0000		Concrete Good	Barifon A	and has	18' 8" 6	Good				400	550 51	3 733	700
	NAA-50.603W068-47.689 Lossile to Carrie Pill			hore o	0000		Concept		ood ves	24. 6	2 pod	4.			400	4 00 4	3 4.33	100
10/10/17 inter C	LIAMEN ABSTRICTED THE BOT LAND	a same		Lore A.	Good				nod yes	6.14" 6	2 poo	*			4.00	392 4	9 600	80.2
	NAME OF TAKENDARY 780. Accord from 124. Localla			more 6*	6000	0 2 6000		Concrete	600d yes		1 pos	4.			4.00	4.08 6.08		2,00
12/18/12 Tumbr F	NA4440 766W06847750 133 Longle			udre 4"	Bood	0 1 6000	Concrete	Concrete	sad poc		i poc	3.		0	4.00	3.58 3.67	7 500	1.42
1/15/13 Turner F	N44*50 803WC68*47750 133 Losolle			uare 6* 600d		0 0 900			sak pos	17" M" 6	1 poo	6			400			2.08
1/16/13 Turner E	NA4*50.831W068*47.736 next to hydrant \$026			Square 6" 600d		0 2 9000	Cencrete	Concrete	sad poo	17. 6	1 poo			020	4.00			175
1/15/13 Turner E	NH4*50.874W068*47.732 last basin @ furn around lasoile	Square 6		Square 6" 600d		0 050 9000	Concrete	Concrete	good yes	9 .0	pod 1	6			400			175
1/16/13 Turner E	144*50.832W068*47.748 154 Lasalle	Square	37	Square 6" Good		0		Concrete	Good no		-	6		200	00 4			180
3/7/13 Turner E	N44"48,764W068"46,074 333 Essex	Round	Good P	Round 5*	600d	O 3 Good	Concrete		od yes	9 .21	Good				8 8			158
3/7/13 Turner E	N44*48:685W068*46.054 295 Essex			Round 6	pood	0 4 6000		d Concrete Go	900		-	9		va 1	8 8	247 4 23		807
	N44*48929W068*45,878 236 Palm	Round				2		Concrete	sal		- 4				8 8			25.00
3/7/13 Turner E	N44*50.798V/068*47.759 136 LoSalle			done o		bond .	Concrete food	Concrete	Good ves		Head 11	60	N poog		40			192
3/7/13 Turner E	N44-90,765W068-47.756	Square		Square 4"	0000	0	Concrete	Concrete	yes	12.								
3/8/13 lumer c	NAME OF CONTRACTOR OF THE PARTY	Dougl	9 6	Pound 4		0 0	Concrete	Concrete	99		T.	2	*	· to				
3/8/13 Turner F	NA4*50 723W068*47.757 106.LoSolle	Square	e vn	nore B"		0	Concrete	Concrete	yes	.9	#	2.	2		4.00		5 5,42	1.50 0.54
3/8/13 Turner E		Square	S	Square 6"		0 0	Concrete	Concrete	yes	.9	44	100	2			4.92 5.1		
3/8/13 Turner E	N44*50.644W068*47.739 66 LaSolle	Square	S	done 6°		0	Concrete	Concrete	yes	6. 15.	*	-	01			525 6.50		
3/8/13 Turner E	NA4*50,661W068*47,695 Across from B Hillview	Square		hore 6°			Concrete		yes							5.50 5.5	3 7 58	
3/11/13 Turner E				fnore 6.	6000	0 1 6eed			od yes	6 [12 6	9009	5 4				4,08 4,50		
3/11/13 Turner E	N44*50.179W068*47,639 53 Hillyiew			lance 6"	0000	0 1	Concrete	Concrete	her her		- 4	5 4				483 63	6 83	
3/11/13 Turner E	N44"48.460W068"45.478 Z8 Fern		0000	Square 8	5000	9000	Concrete 5000		od wes	.9		91760	Sood no			392 408		
3/12/13 Turner E	NAME DO 729WOOS 47 609 DO HINKIN	o admore		done v.	Bood	0 0		Concrete	148	6.15		6.15" 60				8.08 83		
3/12/13 Tumer E	NA4*50 242 V048*47 444 70 Julium			none 6*	pood	0		Concrete	, sak		Good 15					3.83 5.50		
3/12/13 Tumer E	144*50.802W068*47.672.88 Hillycew			guare 6"	bood	0		Concrete	eood no			2077						1.92 0.62
3/14/13 Turner E	N44"50,566W068"47,484 40 Fenten Way			quare B*	peog	0 36000	Concrete	Concrete	od yes	4.8 6.	Good 12							
3/14/13 Turner E	N44*50.530W068*47538 25 Fenton Way			ound 2"		0	Concrete	Concrete	90		#	10.	0					
3/14/13 Tumer E	N44*50.555W068*47.586 Fenton Woy @ Judson Blvd	Square		_g autorit			Barrel		yes	8, 10,	# 1					5,83	10 E	000
3/14/13 Turner E	N44*50;511W068*47.661 45 Judson Blvd			one 6"	Bood		Barrel		od po				90		80.4	62.0	0.40	000
3/14/13 Tumer E	N44*50.489W068*47.688 37 Judson Blvd		Good P	Round 6"	Good	0 2 6cod	Barrel		Sak po	on a	2 5000		90 90			478	478	3 8
3/14/13 Tumer E	N64*50.451W068*47.729 19 Judson Blvd			o gund	9000		Control	d Concrete Go	9 90		0 60	5 3	ou po			4.25 6.33		2 42 0 62
3/14/13 Turner E	N44"50.563W068"47 475 49 Fenton Way			DOI GO	0000	0	Concrete		od ver	.61	Do Do	9	ou po					200
3/14/13 Turner E	N44"50.649W066"47,732 Hillyew @ LaSaik			t august	0000	1	Concrete		od ves	12. 96	Geod 15	00	90			6.58 6.83	8.58	
3/16/13 Turner E	N64*50 4774068*47 687 Packard Dr @ Judson	Beund		oned 6.	600d	0	Barnel		ou po		en en	9	ou po			492	4.92	000
3/15/13 Turner E	N44*50 444W068*47 622 29 Packard Dr			"9 pund	Good	0 3 6000	Bornel		ou po		60	99	ou po			7.67	7.67	000
3/15/13 Turner E	N44*50.417W068*47.572 53 Packard Dr			.9 pend	bood	0 6 600	Barrel		od po		80	9	ou po			6,33	4.33	000
3/18/13 Turner E				.9 punc	Good	0 5 6000	Barrel		oo hez	16. 6. 6	li po	9	2 2	220		7.75	7,75	000
3/15/13 Turner E				Round 6°	poog	0 1 6eed	Barnel		ou po		= :	8	N :		8 5	261	4.92	8 8
3/15/13 Turner E				ag pund	poog	3 9000	Concrete		90		4	6	2 2		3 8	90	900	3 %
3/15/13 Turner E				ound 6°	Good	3 6000	Borre	d Concrete 50	and yes	10:12	Sond 12	6 9	od po			8 8	9 4	8 8
3/16/13 Turner E				Round o	0000	0			od her		od 10	9	ou po			888	5.83	00
3/18/13 Turner E				o puno	0000	1 000	Bornel Goo		New York		90	. 60	ou po			8.08	90 9	000
3/10/13 Tumer E	NAME OF SALVOSS AV 4/4 54 PROTECT NO	a dente S		done 6"	Good	0 1 6000		Concrete	yes		od 16	. 60	ou po			5.75	6.75	8
3/18/13 Turner E	NAME OF STREET STREET STREET OF STREET OF STREET STREET OF STREET			oned 6"	Pood	0 1 6000			sak po		5d 12	. 69	ou no			5.33	6.33	000
3/18/13 Turner E	N44*50.427W068*47.559 Pteather @ Pachard		Good	Round 6"	Good	0 16000	Barrel Good		90		12	- 600d	ou po		4.00	3.50	3.50	000
3/18/13 Turner E	N44*50447W068*47524 9 Heather	40		Sagre 6"	Good	0 3 600			ou po		31	60	Po Po			6.47	6.4.9	8
3/18/13 Tumer E	ALLEGEN SECTION REAT 100 BG Designed Des			3.24								A009					0.0	

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		N44*50353W068*47.489 92 Packard		Gand	***	Bood							101	Gand						
				2000	round 6	-	1 0000		-	Concrete Good	20		40	2000	8		4.00	26.9		
		NA4*50.391W068*47.531 78 Packard		6000	round 6°	Good	0 2 6000		_	Concrete Good	hes I.	6000	10.	Good	2			5.76		
		NA4*50.422W068*47.549 Packard across from 45			round 6"	Bood	0 4 9000		-	Concrete Good	yes 10"	6000	15	6000	2			833		
		N44*50.432W068*47,561 Packard across from 45			square 8"	Good	0 2 9000		_	Concrete Good	yes 12	6000		6000	90			2.67		
	3/18/13 Turner E	N44*50.451W/068*47.604 Packard scress from 29			sdnove 8.	600d	0 1 9000		-	Concrete 000d	yes 50	pood	101	good g	2 8			508		
		N44*50 457 W068*47, 608 5 Rose Ct		600d	Pound 6	0000	0 0	Borrel	_	Concrete Good	wes 6	Good	3	6000	2			00		
		N44*80 481W068*47.993 17 Rase Ct		pood	round 6'	Good	0 4 6000		600d	Concrete Good	yes 4	6000	10	6000	ĝ			999		
		NA4-DU-ABOW COS-47, D.C. B. MOSE CT		pood	Lorend 6.	Good	0 2 6000			Concrete Good	yes 2'1	D. 600d	Ñ	6000	9			.33		
	/18/13 1umer C	NAME OF SECURITY AND PROPERTY OF THE PARTY O	Local	Good	Lorand 6'	600d				Concrete 600d	yes 12"	600d	***	6000	9			5.83		
	750/13 Turner C	ANGENERAL SOUNDERS AND SHARE SON STATES STATES SON STATES SAN STATES SAN SAN SAN SAN SAN SAN SAN SAN SAN SA	Sauore	6000	source 6"	600d				Concrete Good	yes 3'	Good	, m	Bood	2			00		
	25/13 Tumer C	1444 150 150 140 140 140 150 150 150 150 150 150 150 150 150 15	Source	Good	Soubre 8"	6000				Concrete Good	yes 12"	3. Good	12.3	600d	2			.63		
Comparison of the comparison	20/13 Turner 6	NA4#50 636W068#47 569 100 Judges	punou	Good	round 6"	Good			_	Concrete 600d	yes 3.	6000	èo	Good	2			90		
Comparison   Com	20/13 10/05 C	NATA DO COOM ONE TO THE STATE OF THE STATE O	ponos	Good	Lorand 6"	Good				Concrete Good	yes 12"	Good	12*	6000	2			117		
Column   C	20/10 Tumer E	N444-60 56340068-47 598 Judan gross from Fenton	Lound	6000	round 6"	Фооф				Concrete Good	yes 3, 2				2			80		
Column   C	COVES Turner C	MARANDE SOUNDE BAND Tudon @ Lo Colle	Same	bood	source 8"	bood				Concrete Good	yes 3.	Bood	3,	poog	92			,25		
Comparison   Com	20/13 Turner C	MARKED SCOOLS TO SECOND STORY OF SECOND SECO	posta	bood	round 6"	6000				Concrete Good	yes 3"	9009		poog	2			.33		_
March Controlled Visit National	Apply 1 Towns C	THE DESTRUCTION OF STATE OF ST	Condition	Good	source 8"	6000				Concrete Good	yes 12"	3. Good			2			.683		
	25/13 Tumer E	Na450 645W048*47.476 8 Shody lane	South	poog	square 6"	Good				Concrete Sood	yes 12"	Good	15.	bood	2			00		
	25/13 Turner F	N44*50 644W068*47.460 34 Shody Lane	Square	bood	square 8"	9 ood				Concrete 600d	90		15.	Good	No			55		
	26/13 Turner F	NA4*50 720 WG68*47 B56 169 Judson	round	600d	round 6"	6 ood				Concrete Good	yes 18.	Good	18.	6000	94			117 5.76	7.08	91 0.6
	28/13 Turner F	NA4*50463W068*47.269 108 Bolson Rd	Pound	6000	.9 punou	6 obd				Concrete Good	yes B		òo	6000	90			90 90	5.33 2	25 0.1
		N44*50.512W068*47.320 80 Balsam Rd	round	6 ood	round 6"	poog				Concrete 600d	yes 8.1		18,	9009	110				6.50	92 0.6
Exercise   Control of the control	/25/13 Turner E		punou	6 eod	-9 punou	poog				Concrete Good	92		12	Good	30				-	
	3/25/13 Turner E	NA4*50,440W068*47,272 123 Bolson Rd	round	bood	round 6	6 and				Concrete Good	yes 2		2		ê.			00 00		
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	25/13 lumer E	THE TOUGHOUSE WORD AS THE ACTION OF THE SECTION OF PARTY OF THE SECTION OF THE SE	Scrippe	Pood	edunose 6"	Good				Concrete Good	76.5		18*	Good	94					
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	28/13 Tumer E		Square	6000	square 8.	pood				Concrete Good	yes		'n	Pood	90					
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W         One @ Streenth (Neth Side)         Round         Good         Round         Good         Brite         Good         Brite         Good         Concrete         Good		Ohio @ Seventeeth (South Side)	Square	poog	Square 6°	6000	2 6000			Concrete Good		9009	10-	6000	sak :	Steel			5.00 2.0	
W         900 Ohio ST         Round         Good         Round         Good         Concrete         Food		Ohio @ Sixteenth (North Side)	Round	600d	Round 6"	Good	all 6000			Brick Good			io ë	6000	Yes	Metal			8 8 4	
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W Access from 117 Court St Round 6 Good Round 6' Good Roun		Ohio & Hommond Se Stone Side	Saugre	Good	Southe 8°	600d	-			Concrete Good	no.		8	bood	9				8,00,8	
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W         Dozone S1@ Miller West Side         Round         Good         2         Concrete Good         10° Fer		338 Ohio St	Round	600d	Round 6"	Good	m			Concrete Good	No		òn	6000	Yes	Metal			909	
W Deams SI @ Miller St East Side   Round G Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   Round G   Good   G		Doane St @ Miller West Side	Round	6000						Concrete Good	yes 6'10		12"	Fair	9				4.00 2.0	
W W44482149W06846489 Annext from old Polite Days - Court 51 Round Good Square 6 ood		Doane St @ Miller St East Side	Raund	Good	Round 6"	poog	4 Four		10	Concrete	SE	poof	40.1	fair	90	Made			00.6	
W NA4*48_148W068*46.99 Acress from old Palice Dept -Curt St Round Good Round's Good Brick Good Bric			Square	600d	Square 6	Good	~		bood at	Brick Good	60	6000	4 60	Bood	59%	Metal				
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	2.79	0.93	0.47	0.93	1.40	0.47	0.47	0.93	1.40	1.40	0.47	0.47	0.93	0.93	1.40	2,33	1.40	0.93	0.47	0.93	0.93	0.47	0.47	000	0.47	0.47	0.47	0.47	00'0	000	0.93	0.47	0.47						0.47	0.47	0.47	0.85	0.24	160	0.97	0.73	090	0.26	0.47	090	1.16	0.29	1.45	0.31	777	000	000	112	0.47	3.26	000	141	0.74	0.93	0.93	0.28	0.37	0.74
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W. MANY CROSSINGLY, SERIES STATES AND STAT	Brick	Concre	Brick	Concre	Concre	Concre	Concre	Concre	Concre	Brick	Concre	Concre	Concre	Concre	Brick	Brick	Concre	Brick	Brick	Concre	Concre	Brick	Concre	Brick	Concre	Cancre	Concre	Concre	Concre	Brick	Concre	Brick	8rick	Concre	8rsck	Brick	Cancre	Concre	Cancre	Concre	Brick	- Comen	1000		Concre			Concre	Concre	Concre	Concre	Centre	Centre	Concre	Concre	Barre	Concre	Barre	Berre	Concre	Brick	Paricel	Borrel	Borrel	Concre	Concre	Barrel	
Wear of Schools of Schools   Schools   Schools   School	0000	600d	Good	Good	bood	Good	600d	6000	poog :	6000	poog :	600d	Good :	Pood :	Good	Good	600d	P00-9			good :	Good		Good	poog	Bood .		Good	Good	6000	Good	6000	6000	_	-	_	-	poog :	D009	D004	pood	0000	2000		Poog	bood	6000	P009	For	Bood	×	Bood :	900g			pood			Lab.	0000	Ferr	P. der	Los	Flair		-	Fair	
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W   West of StyMooder 2011 17 (Active 5)   Control of	poof	pood	pood	pood	pood				poof	pood		Poor			pood	pood	pood	pood	pood					pood	pood	pood			poo g	Good	poog	Good	poog		9-00d	pood	bood			pood	6000	0000	0000	Fair	pood	pood	book	pood	poof	1004			Foir	Poor		pood		Feir	Fair	pood	Poor	Poor	Fair	fair/poor	Poor		11 for	
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			177 BUCK ST	290 Buck st	Buck & W. Broadway	524 DOUR 31	Such & Heurey St	8uck across from 3rd	177 Buck St Track side	A cross from Buck St-Track side	26 Dayton St-stream side		NA4*4894tW068*47.903 688 Ohio st					NAM*47 795W068*47 920 95 Silver	NA4*47 833W066P47 996 65 Silver	NAME AT TRANSCORPET FOR School School														NA4*48427W068*46.835 Ohio/James				NMA*48.460W068*46.680 Across from 3 Hudson St	NM4*48:332W068*46.829 3 Charles St	N44"48,216W068"46,930 Charles/Union	NA4*48.2B2W068*46.B65 Charles/Highland								NA4*49,249W068*48.B71 35/47 Bolling Dr	N44"49.357W068"48,790 83 Balling Dr			NM4*49.177W068*48.836 193 Bolling Or	NA4*49-506W068*48739-170 Bolling Dr		211 Langley & Bolling on Bolling	Langley & Bolling on Langley	N44"49,486W068"48,819 108 Langley	N44"49.443W068"48.824 90 Langley	N44"49,422W068"48.824 Parking tot at 42 Langley	74 Langley	NA4-49.287W068*48.874 Bolling & Langley across from 35 Balling	NA4*49.292W0668*48.873 across from 47 Bolling on Langley	NA4*49.323W068*48.907 Hydront 867 Langley after 15 Langley	NA4*49.364W064*48.896 37 Langley	NAME 40,412 WOODS 46,541 LOPER OF LANGERY OF MITCHEST PYTHE AND ANALYZON TO THE STATE OF THE STA	NA47-49,486W-068-48,830 113 Langley	The state of the s
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744-49 300W 008-46 0VG 2.23 MITCHES		and the same of	Good	C	7 Poor	Bornel	Fair	Barrel		-	, to	12-	fair	970		4.00	100	-	8.00	(0.7)
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NAME 49 336W COBE 48 683 COTTACT OF STREET AS STREET OF MISSINGS TO THE STREET OF STRE		pound d'	6000	0	2 for	Barrel	600d	Barrel				, o	pood	92			100 5.00	-	3.00	-
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N44*48.639W068*47.142 Hydrant / 52 #12 lyter	poop punou	reund 4°		Noo	fair	Brick	Fair	Brick		yes.	÷	9.9	fair	9		4,00	99.9		7.00	

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# Construction Inspection Form - City of Bangor, Maine MS4 PY5

Name of Inspector: PLEWY MATIL	Date:	9/26/12
Name of Site/Project: Kily r fally - 299 Juilon	Signature	A MONEY
Urban Impaired Watershed: Kully Kully Rung	(Arctic Brook)	(Arctic Brook/Birch Stream, Capehart
Is Proper Erosion Control Systems Employed?	Yes	_ oN
If no, state corrective action and date completed		BASES (1-1-1-1)
		\
Is there offsite tracking of sediment or fill material?	Yes a	Nov
If yes, state corrective action and date completed		
	\	
Are onsite drainage control structures functioning properly?	Yes V	ON.
If no, state corrective action and date completed		
Are there signs of Sedimentation leaving the site?	Yes 🗆	Nov
If yes, state corrective action & date completed		
		`
Are additional BMPs required for drainage or erosion control?	Yes	No
If yes, state corrective action & date completed		
Photos Taken		

### Construction Inspection Form - City of Bangor, Maine WS4 PY5

Name of Inspector: LAW P. MWith	Date: /	12-11-12 (N)
Name of Site/Project: 「いいいし ー にんいい www. Urban Impaired Watershed: こんいりつ † Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	Signature: (Arctic Brook,	Signature: (Arctic Brook, Birch Stream, Capehart
Is Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Nes	No
Is there offsite tracking of sediment or fill material? If yes, state corrective action and date completed	Yes	NO
Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Yesy	No
Are there signs of Sedimentation leaving the site?  If yes, state corrective action & date completed	Yes	Nove
Are additional BMPs required for drainage or erosion control?  If yes, state corrective action & date completed	Yes	No
Photos Taken		

### Construction Inspection Form - City of Bangor, Maine MS4 PY5

Signature. All Marchic Brook, Birch Stream, Capehart	Justule 507/5	Day	No	Nov	Ma-worked unstell age
(A	Yes -	Yes	Yes	Yes	West was
17 Deer Pu	Ich hay		~:		No.
Name of Inspector: JUN Muh.  Name of Site/Project: Tewn Pryphes 17  Urban Impaired Watershed: Feullshun  Brook, Penjajawoc Stream, Shaw Brook, Sudker Brook)	is Proper Erosion Control Systems Employed? If no, state corrective action and date completed $\overline{WUCL}$	Is there offsite tracking of sediment or fill material?  If yes, state corrective action and date completed	Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Are there signs of Sedimentation leaving the site?  If yes, state corrective action & date completed	Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed $ULU(C)$ Photos Taken

### Construction Inspection Form -City of Bangor, Maine MS4 PV5

en prouve	Urban Impaired Watershed: 1 - 5 PCU.  Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	ntrol Systems Employed?	action and date completed  action and date completed  Yes		Are onsite drainage control structures functioning properly?	action and date completed  dimentation leaving the site?		Are additional BMPs required for drainage or erosion control?	s action & date completed	
Name of Inspector:   UM   M. M. Name of Site/Project:	Urban Impaired Watershed: Brook, Penjajawoc Stream, Shaw B	Is Proper Erosion Control Systems Employed?	If no, state corrective action and date completed	If yes, state corrective action and date completed	Are onsite drainage control structures	If no, state corrective action and date completed.  Are there signs of Sedimentation leaving the site?	If yes, state corrective action & date of	Are additional BMPs required for drai	If yes, state corrective action & date of	

# Construction Inspection Form -- City of Bangor, Waine MS4 PY5

Name of Inspector: Jell wy M. M.	Date:	8-09-12	1
Name of Site/Project: 9, 25 lathy www	Sign	Signature	Ì
Urban Impaired Watershed: 6 Shows Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	(Arctic	(Arctic Brook, Birch Stream, Capehart	och art
Is Proper Erosion Control Systems Employed?	Yes	No	
If no, state corrective action and date completed			
Is there offsite tracking of sediment or fill material?	Yes	Nov	
Are onsite drainage control structures functioning properly?	Vest	No	
If no, state corrective action and date completed	ا ر		
Are there signs of Sedimentation leaving the site?	Yes	NON	
If yes, state corrective action & date completed			
Are additional BMPs required for drainage or erosion control?	Yes	Non	
If yes, state corrective action & date completed			
Photos Taken			
010108	2	prevents, my	Jehn Jehn

### Construction Inspection Form -- City of Bangor, Maine WS4 PV5

Signature. AM Sireth Stream, Capehart	No	Noedeel Stobe af cubry	No	No	
p. Muh Lesting a lane 7 - Steun w Brook, Sucker Brook)	Systems Employed?	Is there offsite tracking of sediment or fill material?  If yes, state corrective action and date completed  Shuet Smergy  Are onsite drainage control structures functioning properly?  Yes	and date completed $\sim$ ves $\not$ on & date completed $\sim$	Are additional BMPs required for drainage or erosion control?  If yes, state corrective action & date completed    Automorphism   Automorphis	
Name of Inspector: [WW   MM   MM   MM   MM   MM   MM   MM	Is Proper Erosion Control Systems Employed?	Is there offsite tracking of sediment or fill material' If yes, state corrective action and date completed Are onsite drainage control structures functioning	If no, state corrective action and date completed.  Are there signs of Sedimentation leaving the site.  If yes, state corrective action & date completed	Are additional BMPs required for drainage or el lf yes, state corrective action & date completed.	Photos Taken

# Construction Inspection Form - City of Bangor, Waine MS4 PY5

Name of Inspector:   PULL WY P MUNA	Date:	21-61-6
Name of Site/Project: Timber - gagnhury - Man 5)	Signature:	Am
Urban Impaired Watershed: DUND 22 of Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	Arctic Brock,	(Arctic Brock, Birch Stream, Capehart
s Proper Erosion Control Systems Employed? f no, state corrective action and date completed	Yes	No
s there offsite tracking of sediment or fill material? f yes, state corrective action and date completed	Yes 🗆	NoX
Are onsite drainage control structures functioning properly? f no, state corrective action and date completed	Yes	No 🗆
Are there signs of Sedimentation leaving the site? f yes, state corrective action & date completed	Yes	NON
Are additional BMPs required for drainage or erosion control? f yes, state corrective action & date completed	Yes	Note
Photos Taken		

### Construction Inspection Form - City of Bangor, Maine MS4 PY5

Name of Inspector: Levy from A	Date:	21-61-1
Name of Site/Project: Baut Swings Bunk - Maline Am Urban Impaired Watershed: Direct Parky Lot explained Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	Signature:	Signature: (Arctic Brook, Birch Stream, Capehart
	Yes	No
If no, state corrective action and date completed		
Is there offsite tracking of sediment or fill material? If yes, state corrective action and date completed	Yes	Day
Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Yes	ON O
Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed	Yes □	NoN
Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed	√es ⊔	Jon
Photos Taken		

### Construction Inspection Form -- City of Bangor, Maine MS4 PV5

Date: (0 - 11 - 1 2 Signature: (10 - 11 - 12)	Ves Set (Arctic Brook, Birch Stream, Capehart	Yes - No	Yes	Yes a No	Yes a Note	
Name of Inspector: Duy P. Muh.  Name of Site/Project: Duyy Gus	Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook) Is Proper Erosion Control Systems Employed?	If no, state corrective action and date completed  Is there offsite tracking of sediment or fill material?  If yes, state corrective action and date completed	Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed	Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed	Photos Taken

### Construction Inspection Form -- City of Bangor, Maine IMS4 PY5

Name of Inspector: Lew Munth  Name of Site/Project: Buy Munth  Urban Impaired Watershed: Brook, Sucker Brook)	Signature:  (Arctic Brook,	Signature: 8-9-12 Signature: 900 LC
Is Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Yes	No
Is there offsite tracking of sediment or fill material? If yes, state corrective action and date completed	Yes -	Nov
Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Yes	Non
Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed	Ves	Non
Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed	Yes	DON
Photos Taken		

### Construction Inspection Form -City of Bangor, Waine MS4 PY5

Signature: (Arctic Brook, Birch Stream, Capehart	eded. Spoke w/ where	Nox	Noi	NoN	Non the stable wh
Arc S	Yes y	\ Kes □	Yes	Yes	Yes
Name of Inspector:   Levy f Muhr Name of Site/Project:   Wuttufut (OB) Urban Impaired Watershed:   Paudhis of Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	Is Proper Erosion Control Systems Employed?  If no, state corrective action and date completed the white when the state corrective action and date completed the white when the state control is the control of the cont	Is there offsite tracking of sediment or fill material?  If yes, state corrective action and date completed	Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed	Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed $\iiint \bigcup $

### Construction Inspection Form -- City of Bangor, Maine MS4 PY5

Name of Inspector: Levy DMWith 1195 0 WW	Date: Signature:	1(-9-12 XMM
Urban Impaired Watershed: Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	(Arctic Brook,	(Arctic Brook, Birch Stream, Capehart
Is Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Yes	No
Is there offsite tracking of sediment or fill material?  If yes, state corrective action and date completed	Yes 🗆	NO
Are onsite drainage control structures functioning properly?	Yes 🗆	Nob
Are there signs of Sedimentation leaving the site?  If yes, state corrective action & date completed	Yes 🗆	Nov
Are additional BMPs required for drainage or erosion control?	Yes 🗆	Nov
Photos Taken		

### Construction Inspection Form -- City of Bangor, Maine MS4 PV5

Name of Inspector: [ [LUV] P-WULL	Date:	9-19-12
Name of Site/Project: Koll (Woln (195 3h 0 st.	Signature:	July
Urban Impaired Watershed: Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	(Arctic Brook	(Arctic Brook, Birch Stream, Capehart
Is Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Yes	No
Is there offsite tracking of sediment or fill material?  If yes, state corrective action and date completed	Yes	MoN
Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Yesk	No 🗆
	Yes	No
Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed	Yes 🗆	NON
Photos Taken		

### Construction Inspection Form -City of Bangor, Maine MS4 PY5

Signature: (0 - (2 - (2 ) Signature: (Arctic Brook, Birch Stream, Capehart	No	No	ON	Non	J-ON	
Signature (Arctic Brook)	Yesk	No more fredery	Yes	Yes	Yes	
Name of Inspector: JULW & MWL Name of Site/Project: 4 ( WWrg, S.L.s Urban Impaired Watershed: 7 S. C.L.s Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	Is Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Is there offsite tracking of sediment or fill material? If yes, state corrective action and date completed	Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed	Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed	Photos Taken

### Construction Inspection Form -City of Bangor, Maine MS4 PY5

Name of Inspector: July Multi- Name of Site/Project: 4 Primurese Stes Urban Impaired Watershed: 4 Shun	Signature (Arctic Brook,	Signature 9-(3-(2) Signature Arctic Brook, Birch Stream, Capehart
Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook) Is Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Yes	No
Is there offsite tracking of sediment or fill material?  If yes, state corrective action and date completed Tracking M	ves &	Nocy
Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Yesh	No 🗆
Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed	Yes	NON
Are additional BMPs required for drainage or erosion control? Yes If yes, state corrective action & date completed $\mathcal{GMM}$ $\mathcal{MMM}$ Photos Taken $\mathcal{M}$ $\mathcal{M}$	Yes 🗡	Spile of Unterta

### Construction Inspection Form - City of Bangor, Maine MS4 PY5

Name of Inspector: Jely P. Wunh	Date:	2-6-12
Name of Site/Project: Tewn pruphus 215 p. Mest	Signature:	MW W
Urban Impaired Watershed: Hwo him the Brook, Bucker Brook)	(Arctic Brook,	.(Arctic Brook, Birch Stream, Capehart
Is Proper Erosion Control Systems Employed?	Yes	No
If no, state corrective action and date completed		
Is there offsite tracking of sediment or fill material? If yes, state corrective action and date completed	Yes	No
Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Yes o N (A	No 🗆
Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed	Yes	Nox
Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed	Yes 🗆	No
Photos Taken		

### Construction Inspection Form -City of Bangor, Maine WS4 PY5

Name of Inspector: LAWING. Marth.  Name of Site/Project: RAMIN, Wallows 5.6. 503 V  Urban Impaired Watershed: P - SMINN,  Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	Signature: 8 - 13-12 Signature: MM L
Is Proper Erosion Control Systems Employed?	Yes-X No 🗅
,	Yes V Non New Yes
If yes, state corrective action and date completed   Under U	- Sweep sad. chrom
If no, state corrective action and date completed	
Are there signs of Sedimentation leaving the site?  If was state corrective action & date completed	Veste Non Non The
osion	Yes - No W
If yes, state corrective action & date completed	
Photos Taken	

### Construction Inspection Form -City of Bangor, Maine MS4 PY5

Name of Inspector: JUM PMIN	Date: M	Date: \$-7-17-12
10	Signature:	Simple
Urban Impaired Watershed: / - She WM. Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	1	(Arctic Brook, Birch Stream, Capehart
Is Proper Erosion Control Systems Employed?	Yesk	No
If no, state corrective action and date completed_		
Is there offsite tracking of sediment or fill material? If yes, state corrective action and date completed	Yes 🗆	Make
Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Yes K	No
Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed	Ves a	No ov
Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed	□ s⊕A	Nex
Photos Taken M		

# Construction Inspection Form - City of Bangor, Maine MS4 PY5

Name of Inspector: CCM	Signature (Arctic Brook,	Signature. A M Signature. (Arctic Brook, Birch Stream, Capehart
Is Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Yesk	No 🗅
Is there offsite tracking of sediment or fill material?  If yes, state corrective action and date completed	Yes 🗆	NoN
Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	ves	O O O
Are there signs of Sedimentation leaving the site? If yes, state corrective action & date completed	Ves 🗆	MON
Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed	Yes 🗆	Nok
Photos Taken		

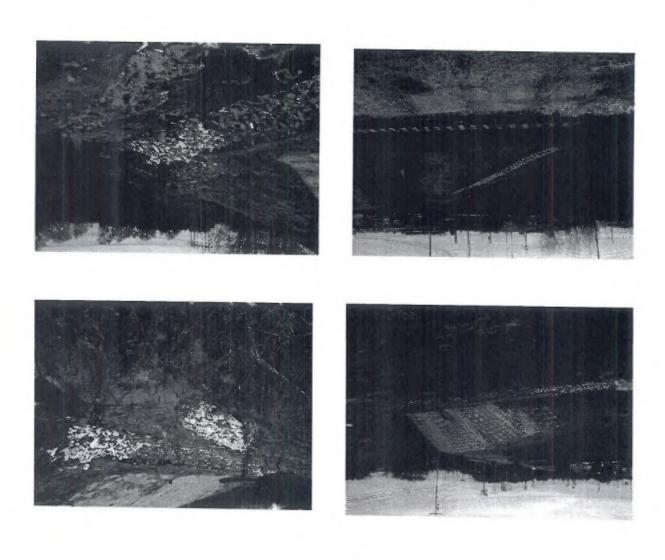
## Construction Inspection Form -City of Bangor, Maine MS4 PY5

Signature: 8-(-(2) Signature: 4 Capehart (Arctic Brook, Birch Stream, Capehart	Yes No 🗅	Yes Nox	Ver J	Yes 🗆 No'z	Yes - Nog	
Name of Inspector: AUS (1) \$7\$ Stylvw/ Urban Impaired Watershed: Chung	Is Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Is there offsite tracking of sediment or fill material? If yes, state corrective action and date completed	Are onsite drainage control structures functioning properly? If no, state corrective action and date completed	Are there signs of Sedimentation leaving the site?  If yes, state corrective action & date completed	Are additional BMPs required for drainage or erosion control?  If yes, state corrective action & date completed	Photos Taken $NO$

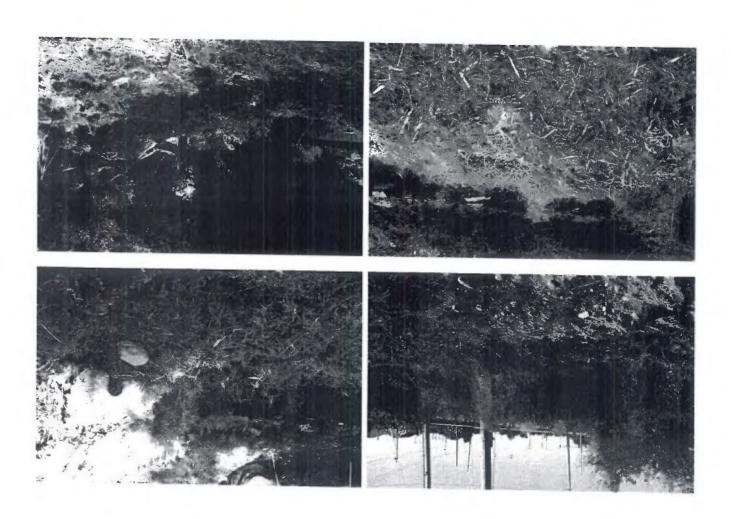
### Construction Inspection Form -City of Bangor, Maine MS4 PY5

Date: 5 (5 - 12 Actic Brook, Birch Stream, Capehart	Ves.	Yes 🗆 No 🗸	Ves√	Yes - No	Yes 🗆 No 🖳	Stalle
Name of Inspector: Muy Wath Date: 5  Name of Site/Project: Spruy we but dury Water Signature: Urban Impaired Watershed: (Arctic Brook, Indian Impaired Watershed:	Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook) Is Proper Erosion Control Systems Employed? If no, state corrective action and date completed	Is there offsite tracking of sediment or fill material? If yes, state corrective action and date completed	Are onsite drainage control structures functioning properly?	Are there signs of Sedimentation leaving the site?  If yes, state corrective action & date completed	Are additional BMPs required for drainage or erosion control?  If yes, state corrective action & date completed	Photos Taken Red INSTITE FINE

		Photos TakenYes
□ oN	X□ seY	Are additional BMPs required for drainage or erosion control? Additional winter stabilization was put in place.
— aspont of newly placed loam	in late October caused wa	If yes, state corrective action & date completedSignificant rain i
□ оИ	X □ səY	Are there signs of Sedimentation leaving the site?
		If no, state corrective action and date completed
□ oN	X□ saY	Are onsite drainage control structures functioning properly?
		If yes, state corrective action and date completed
Xa oV	□ səX	Is there offsite tracking of sediment or fill material?
		If no, state corrective action and date completed
□ oN	X □ səY	Is Proper Erosion Control Systems Employed?
		Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)
k, Birch Stream, Capehart	oora oitorA)	Urban Impaired Watershed: Penjajawoc
homose asserts	Sylvan Road <b>Signature</b> :	Name of Site/Project:_Penjajawoc Stream Culvert Removal at Old S Post-Construction Post-Rain Inspection
	Date: 11/2	Name of Inspector:Amanda Soucier



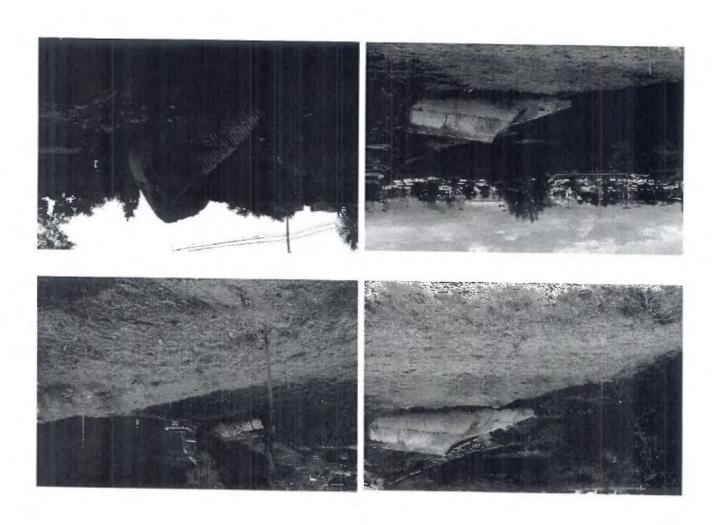
		Photos Taken Yes 2568-2582
		If yes, state corrective action & date completed
x□ oN	□ sə⊼	Are additional BMPs required for drainage or erosion control?
		If yes, state corrective action & date completed
x□ oN	□ səX	Are there signs of Sedimentation leaving the site?
		If no, state corrective action and date completed
□ <b>o</b> N	X□ səY	Are onsite drainage control structures functioning properly?
		If yes, state corrective action and date completed
X□ oN	□ sa¥	Is there offsite tracking of sediment or fill material?
		If no, state corrective action and date completed
□ oN	X□ seY	Is Proper Erosion Control Systems Employed?
		Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)
k, Birch Stream, Capehart	oora sitstA)	Urban Impaired Watershed: Penjajawoc
	·	PreCon Inspection
Journal Sound	Sylvan Road Signature:	Name of Site/Project:_Penjajawoc Stream Culvert Removal at Old S PreCon Inspection
	Date: 8/29	Name of Inspector: Amanda Soucier



If yes, state corrective action & date completed
Are there signs of Sedimentation leaving the site?
If no, state corrective action and date completed
Are onsite drainage control structures functioning properly?
If yes, state corrective action and date completed
Is there offsite tracking of sediment or fill material?
f no, state corrective action and date completed
s Proper Erosion Control Systems Employed?
Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)
Urban Impaired Watershed: Penjajawoc
Vame of Site/Project:_Penjajawoc Stream Culvert Removal at Old Sylvanspection before/after 3" rain event 9/5/12

event. DEP also inspected site before and during event and was pleased with ESC measures. (Email attached.)

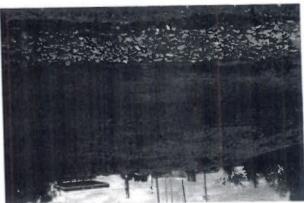
Photos Taken Pee Sales (1987) Prior to event; when the service of the service of



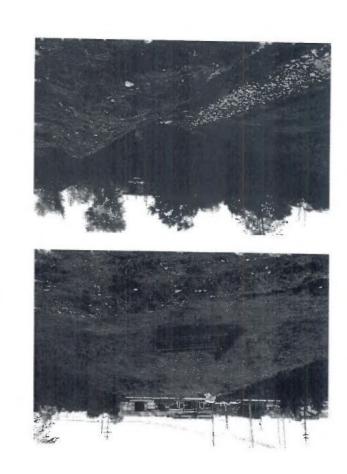
	N	X a oV
	N	X□ oN
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	N	X ON
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	PN	□ ON
o Bre	ok' E	Birch Stream, Cape
nature	بر – :: ا	most character
/6=:	8\20	2012
ature	N N N N N N N N N N N N N N N N N N N	Hirch Stream, Ca No□  No□  No□  No□  No□

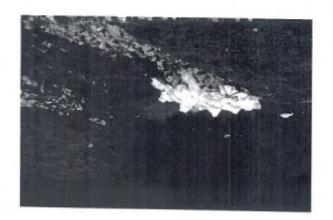
		Photos TakenYes 2623-2626
	Site was stable during a	Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed. Checked site on S showers which began Friday p.m. and ended Sunday late evening, was observed appx. 2/3 of the way up the protection stone, which a
		If yes, state corrective action & date completed
X□ oV	□ səX	Are there signs of Sedimentation leaving the site?
		If no, state corrective action and date completed
□ oN	X□ səY	Are onsite drainage control structures functioning properly?
		If yes, state corrective action and date completed
X□ oN	□ sə人	Is there offsite tracking of sediment or fill material?
contractor addressed 9/27.	s required prior to rain, c	If no, state corrective action and date completed_More mulching wa
X □ oV	□ ѕәд	Is Proper Erosion Control Systems Employed?
ok, Birch Stream, Capehart	ora oirorA)	Urban Impaired Watershed: Penjajawoc Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)
humose contribe	Sylvan Road <b>Signature</b>	Name of Site/Project: Penjajawoc Stream Culvert Removal at Old Inspection before/after rain event 9/27/12 – 10/1/12
11/2012	Date: 10	Name of Inspector:Amanda Soucier





		Photos Taken Yes 2678-2683
No □ X rain event this week.	still all in place following earlier	Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed. Mulching was a Showers occurred on 10/4, showers are forecasted for upcoming
		If yes, state corrective action & date completed
Xo oV	□ səY	Are there signs of Sedimentation leaving the site?
		If no, state corrective action and date completed
□ оИ	X□ səY	Are onsite drainage control structures functioning properly?
		If yes, state corrective action and date completed
Χ□ οΝ	□ səX	Is there offsite tracking of sediment or fill material?
eded earlier this week.	Hogan Road side was also see	If no, state corrective action and date completed
□ON	X = seY	ls Proper Erosion Control Systems Employed?
		Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)
Birch Stream, Capehart	(Arctic Brook,	Urban Impaired Watershed: Penjajawoc
Jamos Calarta	old Sylvan Road <b>Signature</b> : _	Name of Site/Project: Penjajawoc Stream Culvert Removal at C Post Inspection Rain Event 10/4/12, Pre Inspection Rain Event 10
	Date: 10/5/2	Name of Inspector:Amanda Soucier





Name of Inspector: Wyar 7. Calledine  Name of Site/Project: CUG TOM, of White Construction  Urban Impaired Watershed: Brook, Sucker Brook)  Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	Date: Mu, Signature: (Arctic Brook,	nature I Joy Stream, Capehart
Are Proper Erosion Control Systems Employed?  If no, state corrective action and date completed HA	Yes	
Is there offsite tracking of sediment or fill material?  If yes, state corrective action and date completed	Yes	Nox
Are onsite drainage control structures functioning properly?  f no, state corrective action and date completed	Yesx	
Are there signs of Sedimentation leaving the site?  f yes, state corrective action & date completed	Yes -	No
Are additional BMPs required for drainage or erosion control?  f yes, state corrective action & date completed & Sel pend with the second test.  Daw concertions	pond was added.	really Boms +
2	6 12 1/6 1	

	San	
Name of Site/Droject	Signature	
Urban Impaired Watershed:  Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	(Arctic Brook,	Arctic Brook, Birch Stream, Capehart
Are Proper Erosion Control Systems Employed?	Yes o	No
If no, state corrective action and date completed		
	Yes 🗆	Nô.0
If yes, state corrective action and date completed		
Are onsite drainage control structures functioning properly?	Yes 🗆	<b>No</b> D
If no, state corrective action and date completed		
Are there signs of Sedimentation leaving the site?	Yes	No o
If yes, state corrective action & date completed	5 5 7 6 7 6	
Are additional BMPs required for drainage or erosion control?	Yes .	No D
If yes, state corrective action & date completed	Actoring	

Name of Inspector: Jeffrey Allen  Name of Site/Project: Ourert Venue	Date: //	1 22 120 12 May 1011	
shec eam	(Arctic Brook	(Arctic Brook, Birch Stream, Capehart	
	Yes	Noo	
If no, state corrective action and date completed			
Is there offsite tracking of sediment or fill material?  If yes, state corrective action and date completed Self detained in parketing of the forms	ves of parking of about we	with silt seek in CB	D
Are onsite drainage control structures functioning properly?	Yes	No D	
If no, state corrective action and date completed			
Are there signs of Sedimentation leaving the site?	Yes 🗆	No	
If yes, state corrective action & date completed			
Are additional BMPs required for drainage or erosion control?	Yes a	No A	
If yes, state corrective action & date completed			
Were photos taken?	Yes 🗆	No Ø	
If yes, list file names and location			

Name of Inspector: Jeffred Allen	Date: /O	012212012	
Name of Site/Project: I//ww. Hold Wolkway	Signature:	D	
-Urban Impaired Watershed: Paul borot River	(Arctic Bros	(Arctic Brook, Birch Stream, Capeham	
Brook, Penjejawoc Stream, Shaw Brook, Sucker Brook)	+	sciolar of power in tol20/2 is ~ Zhar	
-ts-Proper Erosion-Controt Systems Employed?	JOHN YOUR SOL	NOO Huber Borne bot	distance and distance and
If no, state corrective action and date completed		no breaches.	
Is there offsite tracking of sediment or fill material?	∜es □	Nob	
If yes, state corrective action and date completed			
Are onsite drainage control structures functioning properly?	Yes Ø	No -	
If no, state corrective action and date completed			
Are there signs of Sedimentation leaving the site?	Yes 🗆	NOB	
If yes, state corrective action & date completed			
Are additional BMPs required for drainage or erosion control?	Yes 🗆	NOP	
If yes, state corrective action & date completed			
Were photos taken?	Yes Ø	No	
If yes, list file names and location of the lo	to this ITM sol	Missourina / Photo / 10-17-17	-/>
1000 SOUND S	( H) H	Box L. M. O.	
and the second of the second traces of	tellary want	Joseph Branch Bergy	

Name of Inspector:  Name of Site/Project:  Urban Impaired Watershed:  Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)  Are Proper Erosion Control Systems Employed?  If no, state corrective action and date completed	0 0	Date: Mun 31 300 A Signature Musical Stream, Capehart  (Arctic Brook, Birch Stream, Capehart
Are Proper Erosion Control Systems Employed?  If no, state corrective action and date completed	Yes	No o
Is there offsite tracking of sediment or fill material?  If yes, state corrective action and date completed	Yes 🗆	No
Are onsite drainage control structures functioning properly?  If no, state corrective action and date completed	Yes	No D
Are there signs of Sedimentation leaving the site?  If yes, state corrective action & date completed	Yes -	No
Are additional BMPs required for drainage or erosion control?  If yes, state corrective action & date completed The Gruss is	Yes X	No o
to lather to the south start start	Nam 12 En	two was

Name of Inspector: ( ) wind J. Coglichia	Date: M	achy 2013/
Name of Site/Project: Acria Super	Signature	The Stille in
Urban Impaired Watershed: 6/7001  Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	(Arctic Brook	Brook, Bkon Stream, Capehart
Are Proper Erosion Control Systems Employed?	Yes	No o
If no, state corrective action and date completed		
Is there offsite tracking of sediment or fill material?	Yes 🗆	No
Are onsite drainage control structures functioning properly?	Yes	No o
f no, state corrective action and date completed		
Are there signs of Sedimentation leaving the site?	Yes o	No
f yes, state corrective action & date completed		
re additional BMPs required for drainage or erosion control?	Yes 🗆	* A
yes, state corrective action & date completed		Š
Fost-constructor	Stollow Stollow	7

Are additional BMPs required for drainage or erosion control? If yes, state corrective action & date completed NA Are there signs of Sedimentation leaving the site? If no, state corrective action and date completed NA Are onsite drainage control structures functioning properly? If yes, state corrective action and date completed NA Is there offsite tracking of sediment or fill material? If no, state corrective action and date completed NA Are Proper Erosion Control Systems Employed? Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook) Urban Impaired Watershed: No but Shoreland Zoning Project- Burly Brook (Arctic Brook, Birch Stream, Capehart Name of Site/Project: Broadway Lateral Sewer Easement Name of Inspector: Wynne Guglielmo Yes X Yes -Yes o Yes X Yes X Signature: Where Date: April 5, 2013 No Nox No Nox No o

2013, the entire roadway is to be mulched

double mulching is present along the entire project adjacent to Burly Brook. Before the end of the day, Friday, April 05, If yes, state corrective action & date completed: Requested that entire Roadway is mulched. Silt fencing, rip rap and

If yes, state corrective action & date completed	Are additional BMPs required for drainage or erosion control?  Yes a No a No a	Are there signs of Sedimentation leaving the site?  Yesp  No  No  No  No  No  No  No  No  No  No	If yes, state corrective action and date completed  Are onsite drainage control structures functioning properly?  Yes   No   No   If no, state corrective action and date completed	If no, state corrective action and date completed  The state corrective action a	Are Proper Erosion Control Systems Employed?	Sucker Brook) (Ar	Name of Inspector:  Date:  Signature	
--------------------------------------------------	--------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------	-------------------	--------------------------------------	--

7 (2 12) July		2/1,	
Name of Inspector: Wyang 7. Called the	Date: Muy	1000	
Name of Site Project: CUC Termine Tubbe Courtre	Da Signature	Mangh Hel real	VI
Brook, Penjajawoc Stream, Shaw Brook, Sucker Brook)	(Arctic Brook,	(Arctic Brook, Birch Stream, Capehart	
Are Proper Erosion Control Systems Employed?	Yes	No o	
If no, state corrective action and date completed HA			
Is there offsite tracking of sediment or fill material?  If was state corrective action and date completed	Yes □	Nox	
Are onsite drainage control structures functioning properly?	Yes		
Are there signs of Sedimentation leaving the site?	Yes 🗆	No	
If yes, state corrective action & date completed			
Are additional BMPs required for drainage or erosion control?	Yes o	Now	
If yes, state corrective action & date completed & Sel pond wa	was added.	rentment and t	
Dam/ congrain	+	Ska	

## City of Bangor

## Tour/Field Visit (Invited Inspection) February 14, 2012

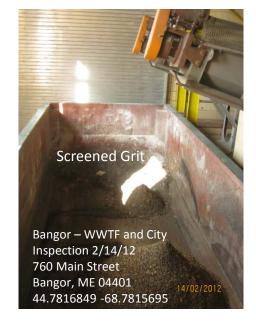
Inspector
Alex Rosenberg

Bangor – WWTF and City Inspection 2/14/12 760 Main Street Bangor, ME 04401 44.7816849 -68.7815695

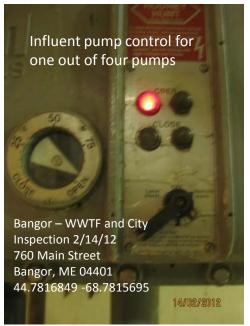












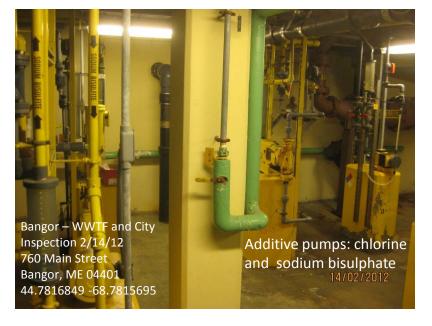










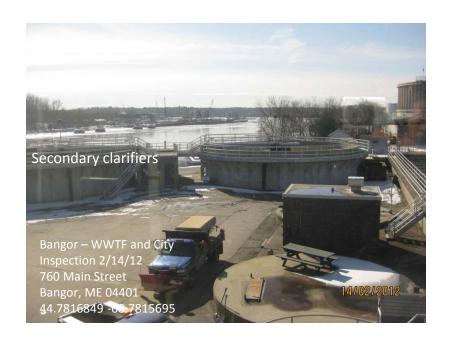












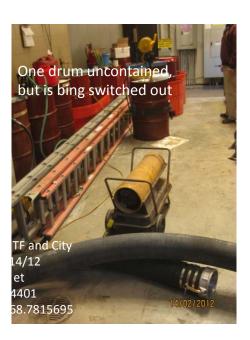




















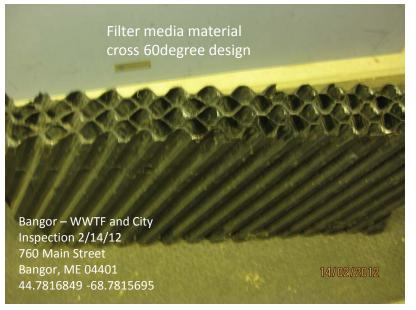










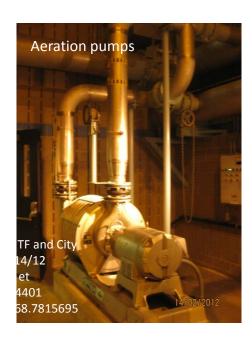


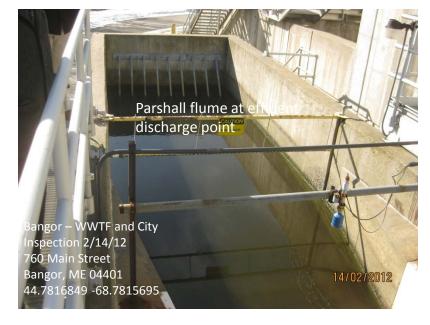


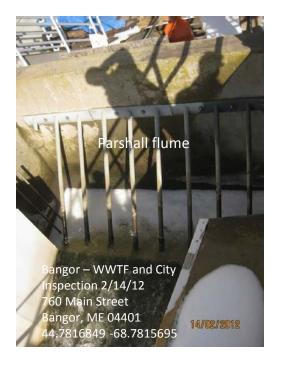




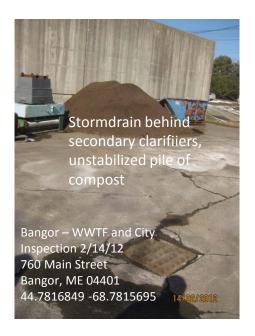


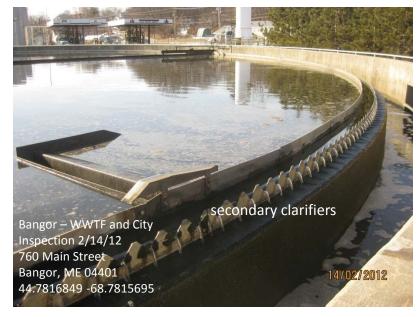














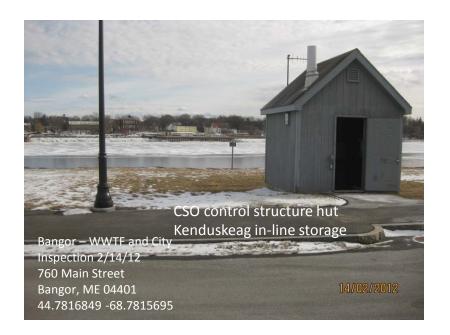


















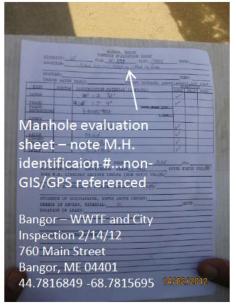


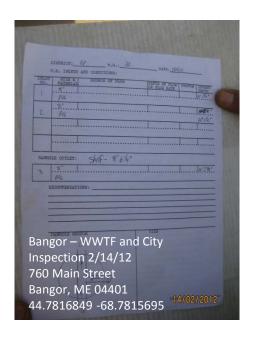
















### PHOTO LOG

1 Photographer	Alex Rosen
2 Facility/Site Name and Address	City of Ban
3 Facility EPA ID Number	
4 Type of photographic device	Digital Cand
5 Digital recording media	Camera
6 all digital photos were copied by	Alex Rosen
7 all digital photos were copied to:	K:\Inspection
8 Original copy is stored:	on a CD

## 9 LOG

Date	Time	File Name	
9/13/2012	1154	IMG_	2214
9/13/2012		IMG_	2215
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9/13/2012		IMG_	2217
9/13/2012		IMG_	2218
9/13/2012		IMG_	2219
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Description/Comments

sylvan road culvert removal and bank stabilization project

bypass hose to sedimentation pond

sedimentation pond

perched culvert being installed

bank stabilization area

bank stabilization area

upstream daylit with groundwater underdrain below I-95

ripple enhanced stream ecosystem

upstream environment - overgrown with invasive buckthorn

upstream environment to sylvan road and (-95 underpass

upstream environment

upstream environment

K-mart sw detention basin

K-mart sw detention basin - sediment deposition in base and overgrown banks

access road to parking lot that feeds sediment basin w/ stormdrain as well

marsh besides home depot

marsh besides home depot

Home depot parking lot with curb breaks to permit sw to runoff into marsh

stormwater outfall across the penobscot in brewer; actively flowing

City of Bangor DPW headquarters parking lot looking towards forested buffer before airport stream

inside stormwater drain in DPW parking lot

temporary berm for stormwater runoff before it can reach the drain in the bottom left of the pic.

airport stream - discharge point for the DPW parking lot

downstream view of wier before stream becomes Birch Stream

DPW maintenance garage parking lot looking towards BIA tank farm

maintenance garage bay doors and fueling station

pumps for jet A fuel, note driveway/fueling station to the left with vehicle using road and hose in road

raised lip stormwater catchbasin outside of pump house

stormwater drain inside of fueling area bermed containment, no containment for the Jet A tank sump f

bulk oil container

bulk oil container

signage of inspection on bulk oil container

signage of inspection on bulk oil container

signage of inspection on bulk oil container

SCADA control system for pumps and tanks
SCADA control system for pumps and tanks
SCADA control system for pumps and tanks
unsigned substantial harm criteria page
signed approval page of integrated contingency plan (SPCC plan)

